# BIODATA

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| **Name** | **Nar Singh Chauhan** | |
| **Date of Birth** | **December 1980** | |
| **Designation** | **Professor** | |
| **Nature of appointment** | **Regular** | |
| **Faculty** | **Life Sciences** | |
| **Department/Centre/Institute** | **Biochemistry** | |
| **Date of Joining in the University** | **22nd March 2010** | |
| **Date of Retirement** | **31st December 2040** | |
| **Contact Details** | **Mobile No.** | **9996893567** |
| | **Email id** | **nschauhan@mdurohtak.ac.in** |

## 1. Educational Qualifications (10th and onwards)

| S. No. | Degree/ Certificate | Board / University | Passing year |
|---|---|---|---|
| 1 | Matriculation (10th) | Board of School Education Haryana, Bhiwani, Haryana | 1996 |
| 2 | Senior Secondary (12th) | Board of School Education Haryana, Bhiwani, Haryana | 1998 |
| 3 | Graduation | Maharshi Dayanand University Rohtak, Haryana | 2002 |
| 4 | Post Graduation | Maharshi Dayanand University Rohtak, Haryana | 2004 |
| 5 | Ph. D. | Savitribai Phule Pune University, Pune, Maharashtra | 2010 |

## 2. Teaching/Research experience

| S. No. | Post | Name of Institution | Period | |
|---|---|---|---|---|
| | | | From | To |
| 1 | Professor | Maharshi Dayanand University Rohtak, Haryana | 22.03.2025 To date | |
| 2 | Associate Professor | Maharshi Dayanand University Rohtak, Haryana | 22.03.2022 To 21-03-2025 | |

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| 3 | Assistant Professor | Maharshi Dayanand University Rohtak, Haryana | 22.03.2010 To 21.03.2022 |

**3. Details of Research Achievements**

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| **H-index (SCOPUS)** | **35** |
| **Google Scholar link** | https://scholar.google.com/citations?hl=en&user=XhLde64AAAAJ&view_op=list_works&gmla=AElLoL0RZ2ouYLXiuPFMuL2Y-8sRdlsRlAsW17LBbs0pSYVqtaDwNumHQEtgtAUsmZ3n5m9Dl1U5j1ouWQS2yZN1 |
| ORCID ID (if any) | 0000-0003-4546-9358 |
| Scopus ID | 36933325900 (Singh Chauhan, Nar Singh - Author details - Scopus) |
| ResearchGate Profile | https://www.researchgate.net/profile/Nar-Chauhan?ev=hdr_xprf |
| Loop Profile | Loop \| Nar Singh Chauhan |

**A. Research Publications**

| S. No. | Year | Particulars / Details | Link to Article | Impact Factor (if any) |
|---|---|---|---|---|
| 1 | 2025 | Gupta S, Raghav SK and **Chauhan NS** (2025) Host-microbiota immuno-interactions for personalized microbial therapeutics. Front. Immunol. 16:1716098. doi: 10.3389/fimmu.2025.1716098 | https://doi.org/10.3389/fimmu.2025.1716098 | 5.9 |
| 2 | 2025 | Verma, D., Sharma, P., Kumar, R.., Jangir,N, Prajapat,V., Marik,D. Mandi,R., Raychoudhury, T., **Chauhan, *N.S.*,** & Sadhukhan**, *A.*** Desert endophyte, *Priestia Megaterium* SI1-IITJ, Improves Fluoride Stress Tolerance by Reducing Fluoride Content of Plant Tissues and Perturbing Salt Tolerance and Defense Genes of Arabidopsis Thaliana. J Plant Growth Regul (2025). https://doi.org/10.1007/s00344-025-11999-8 | https://doi.org/10.1007/s00344-025-11999-8 | 4.4 |
| 3 | 2025 | Sharma P, Pandey R and **Chauhan NS** (2025) *Stenotrophomonas maltophilia* promotes wheat growth by enhancing nutrient assimilation and rhizosphere microbiota modulation. Front. Bioeng. Biotechnol. 13:1563670. doi: 10.3389/fbioe.2025.1563670 | https://doi.org/10.3389/fbioe.2025.1563670 | 4.8 |
| 4 | 2025 | Sharma P, Pandey R and **Chauhan NS** (2025) Assessment of the wheat growth-promoting potential of *Delftia lacustris* strain NSC through genomic and | https://doi.org/10.3389/fmicb.2025.1576536 | 4.5 |

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| | | physiological characterization. Front. Microbiol. 16:1576536. doi: 10.3389/fmicb.2025.1576536 | | |
| 5 | 2024 | Sharma P, Pandey R and **Chauhan NS** (2024) Unveiling wheat growth promotion potential of phosphate solubilizing *Pantoea agglomerans* PS1 and PS2 through genomic, physiological, and metagenomic characterizations. Front. Microbiol. 15:1467082. doi: 10.3389/fmicb.2024.1467082 | https://doi.org/10.3389/fmicb.2024.1467082 | 4.5 |
| 6 | 2024 | Sharma P, Pandey R, and **Chauhan NS** (2024) Biofertilizer and biocontrol properties of *Stenotrophomonas maltophilia* BCM emphasize its potential application for sustainable agriculture. Frontiers in Plant Science 15:1364807. doi: 10.3389/fpls.2024.1364807 | https://doi.org/10.3389/fpls.2024.1364807 | 4.8 |
| 7 | 2024 | Adjele JJB, Devi P, Kumari P, Yadav A, Tchuenchieu Kamgain AD, Mouafo HT, Medoua GN, Essia JJN, **Chauhan NS** and Pandey R (2024) Exploring the influence of age and diet on gut microbiota development in children during the first 5 years: a study from Yaoundé, Cameroon. Front. Microbiol. 15:1512111. doi: 10.3389/fmicb.2024.1512111 | https://doi.org/10.3389/fmicb.2024.1512111 | 4.5 |
| 8 | 2024 | Yadav P., **Chauhan N.S.** (2024) Modulatory role of plant-derived metabolites on host-microbiota interactions: personalized therapeutics outlook Biocell, 48, Issue 8, Pages 1127 - 11432024. | https://doi.org/10.32604/biocell.2024.051318 | 1.0 |
| 9 | 2024 | Monika Yadav, **Nar Singh Chauhan**, Role of gut microbiota in disease severity and clinical outcomes, Briefings in Functional Genomics, Volume 23, Issue 1, January 2024, Pages 24–37. | https://doi.org/10.1093/bfgp/elac037 | 2.5 |
| 10 | 2024 | Singh A., Midha V., **Chauhan N.S.,** Sood A. (2024) Current perspectives on fecal microbiota transplantation in inflammatory bowel disease. Indian Journal of Gastroenterology, 43(1),129-144.10.1007/s12664-023-01516-8 | https://doi.org/10.1007/s12664-023-01516-8 | 2.1 |
| 11 | 2024 | Rasgania J., Gavadia R., Sahu N., Sharma P**.,** **Chauhan N.S.,** Saharan V., Kapoor R.K., Jakhar K. (2024) Design, synthesis, and exploration of novel triazinoindoles as potent quorum-sensing inhibitors and radical quenchers. Future Medicinal Chemistry,16 (5), 399-416. | https://doi.org/10.4155/fmc-2023-0313 | 3.4 |

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| 12 | 2024 | Debankona Marik, Pinki Sharma, **Nar Singh Chauhan**, Neelam Jangir, Rajveer Singh Shekhawat, Devanshu Verma, Manasi Mukherjee, Moses Abiala, Chandan Roy, Pankaj Yadav, Ayan Sadhukhan, *Peribacillus frigoritolerans* T7-IITJ, a potential biofertilizer, induces plant growth-promoting genes of *Arabidopsis thaliana*, Journal of Applied Microbiology, 2024; lxae066. | https://doi.org/10.1093/jambio/lxae066 | 3.2 |
| 13 | 2023 | Yadav M, Kumar T, Maurya R, Pandey R and **Chauhan NS** (2023) Characterization of Cellulomonas sp. HM71 as potential probiotic strain for human health. Frontiers in Cellular and Infection Microbiology 12:1082674. doi: 10.3389/fcimb.2022.1082674 | https://doi.org/10.3389/fcimb.2022.1082674 | 4.8 |
| 14 | 2023 | Shankar Sharma, Pinki Sharma, Anuj Mittal, Anuradha Sharma, David E. Motaung, **Nar Singh Chauhan,** Naveen Kumar (2023) Development of TiO2/Bi2O3/PANI as a novel glucose biosensor and antimicrobial agent, Inorganic Chemistry Communications, Volume 155,110994, ISSN 1387-7003, https://doi.org/10.1016/j.inoche.2023.110994. | https://doi.org/10.1016/j.inoche.2020.108418 | 5.4 |
| 15 | 2022 | **Chauhan NS,** Mukerji M and Gupta S (2022) Role of microbiome in diseases diagnostics and therapeutics. *Frontiers in Cellular and Infection Microbiology*. 12:1025837. doi: 10.3389/fcimb.2022.1025837 | https://doi.org/10.3389/fcimb.2022.1025837 | 4.8 |
| 16 | 2022 | Yadav M, Kumar T, Kanakan A, Maurya R, Pandey R, **Chauhan NS**. Isolation and Characterization of Human Intestinal *Bacteria Cytobacillus oceanisediminis* NB2 for Probiotic Potential. Frontiers in Microbiology, 2022 Jul 13;13:932795. doi: 10.3389/fmicb.2022.932795. | https://doi.org/10.3389/fmicb.2022.932795 | 4.5 |
| 17 | 2022 | Yadav M, **Chauhan NS**. Microbiome therapeutics: exploring the present scenario and challenges. Gastroenterol Rep (Oxf). 2022 Nov 15;10:goab046. doi: 10.1093/gastro/goab046. | https://doi.org/10.1093/gastro/goab046 | 4.2 |
| 18 | 2022 | **Chauhan NS**, Joseph N, Shaligram S, Chavan N, Joshi A, Dhotre D, Lodha T, Shouche Y. *Paenibacillus oleatilyticus* sp. nov., isolated from soil. Arch Microbiol. 2022 Jul 22;204(8):516. doi: 10.1007/s00203-022-03116-0. | https://doi.org/10.1007/s00203-022-03116-0 | 2.6 |

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| 19 | 2022 | Saifi S, Ravi V, Sharma S, Swaminathan A, **Chauhan NS,** Pandey R. SARS-CoV-2 VOCs, Mutational diversity and clinical outcome: Are they modulating drug efficacy by alteredbinding strength? Genomics. 2022 Aug 27;114(5):110466. doi: 10.1016/j.ygeno.2022.110466. | https://doi.org/10.1016/j.ygeno.2022.110466 | 3.0 |
| 20 | 2022 | Mehta P, Ravi V, Devi P, Maurya R, Parveen S, Mishra P, Yadav A, Swaminathan A, Saifi S, Khare K, Chattopadhyay P, Yadav M, **Chauhan NS,** Tarai B, Budhiraja S, Shamim U, Pandey R., Mutational dynamics across VOCs in International travellers and Community transmission underscores importance of Spike-ACE2 interaction. Microbiol Res. 2022 Sep; 262:127099. doi:10.1016/j.micres.2022.127099 | https://doi.org/10.1016/j.micres.2022.127099 | 6.9 |
| 21 | 2022 | Sharma, S., Kumar,N., Makgwane, P.R., **Chauhan, N.S.,** Kumari, K., Rani, M., Maken,S. (2022) TiO2/SnO2 nano-composite: New insights in synthetic, structural, optical andphotocatalytic aspects, Inorganica Chimica Acta, 529:120640, ISSN 0020-1693. https://doi.org/10.1016/j.ica.2021.120640 | https://doi.org/10.1016/j.ica.2021.120640 | 3.2 |
| 22 | 2022 | Sharma S., Mittal A., **Chauhan N.S.,** Saini S., Yadav J., Kushwaha M., Chakraborty R., Sengupta S., Kumari K., Kumar N. (2022) Mechanistic investigation of RhB photodegradation under low power visible LEDs using a Pd-modified TiO2/Bi2O3 photocatalyst: Experimental and DFT studies.Journal of Physics and Chemistry of Solids, 162, 110510.10.1016/j.jpcs.2021.110510 | https://doi.org/10.1016/j.jpcs.2021.110510 | 4.9 |
| 23 | 2022 | Shankar Sharma, Anuradha Sharma, **Nar Singh Chauhan**, Muhammad Tahir, Kavitha Kumari, Anuj Mittal, Naveen Kumar. (2022) TiO2/Bi2O3/PANI nanocomposite materials for enhanced photocatalytic decontamination of organic pollutants, Inorganic Chemistry Communications, Volume146, 110093. https://doi.org/10.1016/j.inoche.2022.110093. | https://doi.org/10.1016/j.inoche.2022.110093 | 5.4 |
| 24 | 2021 | Yadav M, Lomash A, Kapoor S, Pandey R, **Chauhan NS.** (2021) Mapping of the benzoate metabolism by human gut microbiome indicates food-derived metagenome evolution. Scientific Reports (Nature). 2021 Mar 10;11(1):5561. doi: 10.1038/s41598-021-84964-6. | https://doi.org/10.1038/s41598-021-84964-6 | 3.9 |

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| 25 | 2021 | Mehta P, Yadav M, Ahmed V, Goyal K, Pandey R and **Chauhan NS** (2021) Culture-Independent Exploration of the Hypersaline Ecosystem Indicates the Environment-Specific Microbiome Evolution. Front. Microbiol. 12:686549. doi: 10.3389/fmicb.2021.686549 | https://doi.org/10.3389/fmicb.2021.686549 | 4.5 |
| 26 | 2021 | Gupta, S., Shariff, M., Chaturvedi, G., Sharma A., Goel N., Yadav M., Mortensen MS., Sørensen SJ., Mukerji M. & **Chauhan NS** (2021) Comparative analysis of the alveolar microbiome in COPD, ECOPD, Sarcoidosis, and ILD patients to identify respiratory illnesses specific microbial signatures. Sci Rep 11, 3963 (2021). https://doi.org/10.1038/s41598-021-83524-2 | https://doi.org/10.1038/s41598-021-83524-2 | 3.9 |
| 27 | 2021 | Sharma,P., Kumar, T., Yadav, M., Gill, SS., **Chauhan, NS**. (2021) Plant-microbe interactions for the sustainable agriculture and food security. Plant Gene, 28: 100325, 2021, ISSN 2352- 4073. https://doi.org/10.1016/j.plgene.2021.100325. | https://doi.org/10.1016/j.plgene.2021.100325. | 1.6 |
| 28 | 2021 | Sharma,S., Mittal, A., **Chauhan, NS.,** Makgwane, PR., Kumari,K., Maken,S., Kumar,N.(2021) Developments in visible-light active TiO2/SnX (X = S and Se) and their environmental photocatalytic applications – A mini-review. Inorganic Chemistry Communications, 133, 108874. https://doi.org/10.1016/j.inoche.2021.108874 | https://doi.org/10.1016/j.inoche.2021.108874 | 5.4 |
| 29 | 2021 | Kumar, N., **Chauhan, N.S**. (2021) Nano-Biocatalysts: Potential Biotechnological Applications. Indian J Microbiol 61, 441–448 (2021). https://doi.org/10.1007/s12088-021-00975-x | https://doi.org/10.1007/s12088-021-00975-x | 1.6 |
| 30 | 2021 | Naveen Kumar, Anuj Mittal, Monika Yadav, Shankar Sharma, Tarun Kumar, Rahul Chakraborty, Shantanu Sengupta & **Nar Singh Chauhan.** (2021) Photocatalytic TiO2/CdS/ZnS nanocomposite induces Bacillus subtilis cell death by disrupting its metabolism and membrane integrity. Indian J Microbiol 61, 487–496 (2021). https://doi.org/10.1007/s12088-021-00973-z | https://doi.org/10.1007/s12088-021-00973-z | 1.6 |
| 31 | 2021 | S Sharma, N Kumar, B Mari, **NS Chauhan**, A Mittal, S Maken, K Kumari. Solution combustion synthesized TiO2/Bi2O3/CuO nano-composites and their photocatalytic activity using visible LEDs | https://doi.org/10.1016/j.inoche.2020.108418 | 5.4 |

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| | | assisted photoreactor, Inorganic Chemistry Communications (2021), 125, 108418. | | |
| 32 | 2021 | Yadav M, **Chauhan NS.** (2021) Overview of the rules of microbial engagement in the gut microbiome: a step towards microbiome therapeutics. J Appl Microbiol. 2021 May;130(5):1425-1441. doi: 10.1111/jam.14883. Epub 2020 Oct 20. PMID: 33022786. | https://doi.org/10.1111/jam.14883 | 3.2 |
| 33 | 2020 | Yadav M, Pandey R, **Chauhan NS. (**2020) Catabolic Machinery of the Human Gut Microbes Bestow Resilience Against Vanillin Antimicrobial Nature. Frontiers in Microbiology. 2020 Oct 16;11:588545. doi: 10.3389/fmicb.2020.588545. | https://doi.org/10.3389/fmicb.2020.588545 | 4.5 |
| 34 | 2020 | Kumar T, Pandey R and **Chauhan NS,** (2020) Hypoxia Inducible Factor-1α: The Curator of Gut Homeostasis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 227. doi: 10.3389/fcimb.2020.0022 | https://doi.org/10.3389/fcimb.2020.00227 | 4.8 |
| 35 | 2020 | Singh UP, Singh S, Kumar R, **Chauhan NS,** Kumar A, (2020) Effects of allelochemicals from leachates of larvae of *Leucinodes orbonalis* Guenee and leaves of Brinjal, Chilli and Tomato on the foraging behaviour potential of Trichogrammatids. Allelopathy Journal., 2020, 50 (2), 195-212. DOI: 10.26651/ALLELO.J/2020-50-2-1284 | https://www.aminer.cn/pub/5f8c660b9087c8faf3662a12/effects-of-allelochemicals-from-leachates-of-larvae-of-leucinodes-orbonalis-guenee-and | 1.0 |
| 36 | 2020 | Yadav, S., Mittal, A., Sharma, S., Kumari, K**.,** **Chauhan, NS**., Kumar, N. (2020) Low temperature synthesized ZnO/Al2O3 nano-composites for photocatalytic and antibacterial applications, Semiconductor Science and Technology 35(5):055008. Print ISSN: 0268- 1242 | https://iopscience.iop.org/article/10.1088/1361-6641/ab7776 | 2.1 |
| 37 | 2020 | Sharma P., Monika, Goyal K., Kumar T., **Chauhan N.S**. (2020) Inimical Effects of Arsenic on the Plant Physiology and Possible Biotechnological Solutions to Mitigate Arsenic-Induced Toxicity. In: Naeem M., Ansari A., Gill S. (eds) Contaminants in Agriculture. Springer, Cham. ISBN-9783030415549, https://doi.org/10.1007/978-3-030- 41552-5_20 | https://link.springer.com/chapter/10.1007/978-3-030-41552-5_20 | NA |
| 38 | 2020 | Mittal, A., Sharma, S., Kumar, T., **Chauhan NS**., Kumari K., Maken S., Kumar N., Surfactant-assisted hydrothermally synthesized novel TiO2/SnS@Pd nano-composite: structural, morphological and | https://doi.org/10.1007/s10854-019-02720-z | 2.8 |

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| | | photocatalytic activity. J Mater Sci: Mater Electron 31, 2010–2021 (2020). | | |
| 39 | 2020 | G Kumar, E Lathwal, B Saroha, S Kumar, S Kumar, **NS Chauhan**, T Kumar Synthesis and Biological Evaluation of Quinoline-Based Novel Aurones. Chemistry Select 5 (12), 3539-3543 (2020). | **https://doi.org/10.1002/slct.201904912** | 2.0 |
| 40 | 2019 | Mittal A, Sharma S, Kumari V, Yadav S, **Chauhan NS**, Kumar N. Highly efficient, visible active TiO2/CdS/ZnS photocatalyst, study of activity in an ultra low energy consumption LED based photo reactor. J Mater Sci: Mater Electron 30, 17933–17946 (2019). | https://doi.org/10.1007/s10854-019-02147-6 | 2.8 |
| 41 | 2019 | Mittal A, Kumar N, **Chauhan NS.** (2019) Curcumin Encapsulated PEGylated Nanoliposomes: A Potential Anti-Infective Therapeutic Agent. Indian Journal of Microbiology, 59: 336– 343 (2019). | https://doi.org/10.1007/s12088-019-00811-3 | 1.6 |
| 42 | 2018 | Ahmed V, Verma MK, Gupta S, Mandhan V and **Chauhan NS** (2018) Metagenomic Profiling of Soil Microbes to Mine Salt Stress Tolerance Genes. Front. Microbiol. 9:159. doi: 10.3389/fmicb.2018.00159 | https://doi.org/10.3389/fmicb.2018.00159 | 4.5 |
| 43 | 2018 | **Chauhan NS,** Pandey R, Mondal AK, Gupta S, Verma MK, Jain S, Ahmed V, Patil R, Agarwal D, Girase B, Shrivastava A, Mobeen F, Sharma V, Srivastava TP, Juvekar SK, Prasher B, Mukerji M and Dash D (2018) Western Indian Rural Gut Microbial Diversity in Extreme Prakriti Endo-Phenotypes Reveals Signature Microbes. Front. Microbiol. 9:118. doi: 10.3389/fmicb.2018.00118 | https://doi.org/10.3389/fmicb.2018.00118 | 4.5 |
| 44 | 2018 | Verma, M.K., Ahmed, V., Gupta, S., Kumah J., Pandey, R., Mandhan,V., **Chauhan, N.S.** (2018) Functional metagenomics identifies novel genes *ABCTPP, TMSRP1* and *TLSRP1* among human gut enterotypes. *Sci Rep* **8,** 1397 | https://doi.org/10.1038/s41598-018- 19862-5 | 3.9 |
| 45 | 2018 | Kumar N, **Chauhan NS,** Mittal A, Sharma S. (2018) $TiO_2$ and its composites as promising biomaterials: a review. *Biometals* **31,** 147–159 (2018). | https://doi.org/10.1007/s10534-018-0078-6 | 3.6 |
| 46 | 2018 | Kumar, J., Verma, M.K., Kumar, T. Pandey R, Chauhan **NS, (2018)** S9A Serine Protease Engender Antigenic Gluten Catabolic Competence to the Human Gut Microbe. *Indian J Microbiol* **58,** 294–300 (2018). | https://doi.org/10.1007/s12088-018-0732-2 | 1.6 |

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| 47 | 2018 | Yadav, M., Verma, M.K. & **Chauhan, N.S.** (2018) A review of metabolic potential of human gut microbiome in human nutrition Archives in Microbiology. 200(2):203-217. doi: 10.1007/s00203-017-1459-x. Epub 2017 Nov 29. | https://doi.org/10.1007/s00203-017-1459-x | 2.6 |
| 48 | 2017 | Mondal AK, Kumar J, Pandey R, Gupta S, Kumar M, Bansal G, Mukerji M, Dash D and **Chauhan NS** (2017) Comparative Genomics of Host–Symbiont and Free-Living *Oceanobacillus* Species, Genome Biology and Evolution, 9, 1175–1182, | https://doi.org/10.1093/gbe/evx076 | 3.1 |
| 49 | 2017 | Kumar, J., Kumar, M., Gupta, S., Ahmed, V., Bhambi, M., Pandey, R., **Chauhan, N.S.** (2016). An Improved Methodology to Overcome Key Issues Associated with the Methods of Human Fecal Metagenomic DNA Extraction. *Genomics Proteomics and Bioinformatics,*14 (2016), 371-378. | https://doi.org/10.1016/j.gpb.2016.06.002 | 7.9 |
| 50 | 2017 | S. Gupta, M. Kumar, J. Kumar, V. Ahmad, R. Pandey & **N. S. Chauhan** (2017) Systemic analysis of soil microbiome deciphers anthropogenic influence on soil ecology and ecosystem functioning. International Journal of Environmental Science and Technology. (2017) 14: 2229. | https://doi.org/10.1007/s13762-017-1301-7. | 3.4 |
| 51 | 2017 | Kumar, J., Kumar, M., Pandey, R. and **Chauhan, N.S**. (2017), Physiopathology and Management of Gluten-Induced Celiac Disease. Journal of Food Science, 82: 270-277. doi:10.1111/1750-3841.13612 | **https://doi.org/10.1111/1750-3841.13612** | 3.4 |
| 52 | 2017 | **Chauhan, N.S**., Nain, S. & Sharma, R. Identification of Arsenic Resistance Genes from Marine Sediment Metagenome. Indian J Microbiol 57, 299–306 (2017). | https://doi.org/10.1007/s12088-017-0658-0 | 1.6 |
| 53 | 2017 | Monika, Manoj Kumar Verma, Vasim Ahmed and **Nar Singh Chauhan** (2017), Human Gut Microbiome: an Imperative Element for Human Survival. Curr Trends Biomedical Eng & Biosci**,** Volume 6 Issue 1 - July 2017; DOI: 10.19080/CTBEB.2017.06.555680 | https://www.semanticscholar.org/paper/Human-Gut-Microbiome:-an-Imperative-Element-for-Chauhan/05a1c585a4b5af268af558ae7a17a708b9722ccf | NA |
| 54 | 2015 | Vasim A, Kumar J, Kumar M, Chauhan MB, Dahiya P and **Chauhan NS** (2015). Functionalized iron nanoparticle-penicillin G conjugates: a novel strategy to combat the rapid emergence of β-lactamase resistance among infectious microorganism. Journal of Experimental Nanoscience 10(9): 718-728. | https://doi.org/10.1080/17458080.2014.881570 | 2.8 |

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| 55 | 2015 | Kumar J, Kumar M and **Chauhan NS**. (2015) Oceanobacillus sp HM6, a novel glutenase positive microbe isolated from human gut, Journal of Biotechnology and Biomaterial 5(6) pp 309. | https://www.researchgate.net/publication/289014913_Oceanobacillus_sp_HM6_a_novel_glutenase_positive_microbe_isolated_from_human_gut | 5.12 |
| 56 | 2014 | Vasim A, Kumar M, Kumar J, Chauhan MB and **Chauhan NS** (2014). Nanogold/Polyaniline/Penicillin G Nanoconjugates: A Novel Nanomedicine. International Journal of Polymeric Materials 63: 87-92. | https://doi.org/10.1080/00914037.2013.769252 | 2.6 |
| 57 | 2014 | Vasim A, Kumar J, Kumar M, Chauhan MB and **Chauhan NS** (2014). Silver nanoparticles encapsulated polyacrylamide nanospheres: an efficient DNA binding nanomatrix. International Journal of Polymeric Materials 63: 1-5. | https://doi.org/10.1080/00914037.2013.854217 | 2.6 |
| 58 | 2013 | Vasim A, Kumar J, Kumar M, Chauhan MB, Vij M, Ganguli M and **Chauhan NS** (2013). Synthesis, Characterization of Penicillin G Capped Silver Nanoconjugates To Combat β- Lactamase Resistance In Infectious Microorganism. Journal of Biotechnology 163: 419- 424. | https://doi.org/10.1016/j.jbiotec.2012.12.002 | 3.9 |
| 59 | 2011 | Kumar R, Wani SI, **Chauhan NS**, Sharma R, Sareen D (2011) Cloning and characterization of an epoxide hydrolase from Cupriavidus metallidurans-CH34, Protein Expression and Purification 79(1):49-59. doi: 10.1016/j.pep.2011.04. 007. | https://doi.org/10.1016/j.pep.2011.04.007 | 1.2 |
| 60 | 2011 | Gupta HK, Gupta RD, Singh A, **Chauhan NS**, Sharma R. (2011) Genome sequence of Rheinheimera sp. strain A13L, isolated from Pangong Lake, India, Journal of Bacteriology ;193(20):5873-4. doi: 10.1128/JB.05636-11. Epub 2011 Jul 8. | https://journals.asm.org/doi/10.1128/jb.05636-11 | 2.7 |
| 61 | 2010 | Ajit Singh, **Nar Singh Chauhan,** H.V. Thulasiram, Vibha Taneja, Rakesh Sharma (2010) Identification of two flavin monooxygenases from an effluent treatment plant sludge metagenomic library, Bioresource Technology, Volume 101, Issue 21,Pages 8481-8484. | https://doi.org/10.1016/j.biortech.2010.06.025 | 9.0 |
| 62 | 2009 | **Chauhan NS**, Ranjan R, Purohit HJ, Kalia VC, Sharma R (2009) Identification of genes conferring arsenic resistance to Escherichia coli from an effluent treatment plant sludge metagenomic library, FEMS Microbiology Ecology 67(1) 2009,130-9 | https://doi.org/10.1111/j.1574-6941.2008.00613.x | 3.2 |

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|---|---|---|---|---|
| 63 | 2009 | C.S. Pundir, Manu Bhambi and **Nar Singh Chauhan** (2009) Chemical activation of egg shell membrane for covalent immobilization of enzymes and its evaluation as inert support in urinary oxalate determination, Talanta 77 1688-1693. | https://doi.org/10.1016/j.talanta.2008.10.004 | 6.1 |
| 64 | 2008 | C.S. Pundir, **N S. Chauhan,** M. Bhambi (2008) Activation of polyvinyl chloride sheet surface for covalent immobilization of oxalate oxidase and its evaluation as inert support in urinary oxalate determination. Analytical Biochemistry 374, 272-277. | https://doi.org/10.1016/j.ab.2007.11.008 | 2.5 |

**B. Books and Book Chapters**

| Sr No | Title of Book/Chapter | Publisher | Year |
|---|---|---|---|
| 1 | Host-Microbiota Immuno-Interactions for Personalized Microbial Therapeutics. **Nar Singh Chauhan**, Sunil Kumar Raghav and Shashank Gupta (ISBN:978-2-8325-7118-7) https://www.frontiersin.org/research-topics/68516/host-microbiota-immuno-interactions-for-personalized-microbial-therapeutics/magazine | Frontiers Media SA, Lausanne, Switzerland. | 2025 |
| 2 | Microbiome Therapeutics Personalized Therapy Beyond Conventional Approaches, N**ar Singh Chauhan** and Suneel Kumar (ISBN: 978-0-323-99336-4) https://shop.elsevier.com/books/microbiome-therapeutics/chauhan/978-0-323-99336-4 | Academic Press, USA | 2023 |
| 3 | The Impact of Nanoparticles on Agriculture and Soil. **Nar Singh Chauhan** and SS Gill (**ISBN:** 978-0-323-91703-2) https://www.sciencedirect.com/book/edited-volume/9780323917032/the-impact-of-nanoparticles-on-agriculture-and-soil | Academic Press, USA | 2023 |
| 4 | Role of Microbiome in Disease Diagnostics and Therapeutics. **Chauhan NS**, Mukerji M and Gupta S. (ISBN: 978-2-83250-190-0) https://www.frontiersin.org/research-topics/26073/role-of-microbiome-in-disease-diagnostics-and-therapeutics/magazine | Frontiers Media SA, Lausanne, Switzerland. | 2022 |
| 5 | Microbiome, Therapeutics Application and Epigenetics. **Nar Singh Chauhan** (2022) in Comprehensive Gut Microbiota, (ISBN: 978-0-12-822036-8) | Elsevier Press, USA | 2022 |

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| | https://www.sciencedirect.com/referencework/9780128220368/comprehensive-gut-microbiota | | |
| 6 | Role of Microbes in Human Health and Diseases. **Nar Singh Chauhan (**ISBN:. 978-1-83880-234-9) https://www.intechopen.com/books/7534 | IntechOpen Limited, London, UK | 2019 |
| 7 | Sharma P., **Chauhan N.S**. (2023) Sources of endogenous biostimulants, Biostimulants in Alleviation of Metal Toxicity in Plants: Emerging Trends and Opportunities, pp 51-73. https://doi.org/10.1016/B978-0-323-99600-6.00015-3 | Academic Press, USA | 2023 |
| 8 | Monika Yadav, **Nar Singh Chauhan** (2023) Wastewater surveillance: a quick guide to check community health in Genomic Surveillance and Pandemic Preparedness, Pages 187-224, ISBN: 9780443187698. https://doi.org/10.1016/B978-0-443-18769-8.00012-X | Academic Press, USA | 2023 |
| 9 | Deepa, Punam Kundu, Gopal Kalwan, Ritu Gill, **Nar Singh Chauhan**, Sarvajeet Singh Gill (2023) Effects of nanoparticles on the plant growth under salinity stress conditions. Pages 239-257, ISBN: 9780323917032, https://doi.org/10.1016/B978-0-323-91703-2.00014-2 | Academic Press, USA | 2023 |
| 10 | Deepa, Ashima Nehra, Gopal Kalwan, Ritu Gill, **Nar Singh Chauhan,** Sarvajeet Singh Gill (2023) Impact of nanoparticles on agriculture and soil: an introduction. Pages 1-12, ISBN: 9780323917032, https://doi.org/10.1016/B978-0-323-91703-2.00013-0 | Academic Press, USA | 2023 |
| 11 | Pinki Sharma, **Nar Singh Chauhan** (2023) Economic aspect of nanomaterial-based agriculture solutions. Pages 363-383, ISBN: 9780323917032, https://doi.org/10.1016/B978-0-323-91703-2.00016-6 | Academic Press, USA | 2023 |
| 13 | Pinki Sharma, **Nar Singh Chauhan** (2023) Effect on nanoparticles on plant cell morphology, physiology, and metabolism. Pages 95-113, ISBN: 9780323917032, https://doi.org/10.1016/B978-0-323-91703-2.00004-X | Academic Press, USA | 2023 |
| 13 | **Nar Singh Chauhan** (2023) Personalized nutrition, personalized medicine, and microbiome therapeutics, Microbiome Therapeutics. Pages 387-399, ISBN: 9780323993364, https://doi.org/10.1016/B978-0-323-99336-4.00017-3 | Academic Press, USA | 2023 |
| 14 | **Nar Singh Chauhan** (2023) The impact of nanoparticles in agriculture and soil: conclusion and future recommendations. Pages 403-408, ISBN: 9780323917032, https://doi.org/10.1016/B978-0-323-91703-2.00005-1 | Academic Press, USA | 2023 |

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| 15 | Monika Yadav, Pinki Sharma, **Nar Singh Chauhan** (2023) Metal oxide–based heterostructures for antimicrobial activity. Pages 535-570, ISBN: 9780323852418, https://doi.org/10.1016/B978-0-323-85241-8.00008-6 | Elsevier Press, USA | 2023 |
| 16 | Kumar T., **Chauhan NS**. (2022), Microbiome therapeutics: a path toward sustainable healthcare. ISBN: 9780081005965, https://doi.org/10.1016/B978-0-12-819265-8.00010-3 | Elsevier Press, USA | 2022 |
| 17 | Monika Yadav, **Nar Singh Chauhan,** Bhavana Prasher, Mitali Mukerji (2022) Dissecting Human Microbiome for Personalized Therapy. Pages 274-285, ISBN: 9780128220368, https://doi.org/10.1016/B978-0-12-819265-8.00024-3 | Academic Press, USA | 2022 |
| 18 | **Monika Yadav, Nar Singh Chauhan** (2022) Spatial distribution of arsenic species in soilecosystem and their effect on plant physiology. https://doi.org/10.1016/B978-0-323-91632-5.00007-0 | Academic Press, USA | 2022 |
| 19 | **Chauhan NS (2021)** Lung Microbiome in Human Health and Diseases. ISBN: 9780081005965, https://doi.org/10.1016/B978-0-12-819265-8.00077-2 | Elsevier Press, USA | 2021 |
| 20 | **NS Chauhan** (2019), Metagenome analysis and interpretation. ISBN: 9780128165485, pp. 139 https://doi.org/10.1016/B978-0-12-816548-5.00010-1 | Academic Press, USA | 2019 |
| 21 | Khushboo Goyal, Tarun Kumar, Pinki Sharma, Monika Rao, Vasim Ahmed, and **Nar Singh Chauhan** (2019) Crop Improvement Through Microbial Biotechnology: A Cross – Talk. ISBN: 9789811388040, pp. 139. https://doi.org/10.1007/978-981-13-8805-7_4 | Springer Nature (Singapore) | 2019 |
| 22 | Kundu P, Gill R, Ahlawat S, Anjum NA, Sharma KK, Ansari AA, Hasanuzzaman M, Ramakrishna A, **Chauhan N**, Tuteja N, Gill SS (2018) Targeting the Redox Regulatory Mechanisms for Abiotic Stress Tolerance in Crops. ISBN: 9780128130667. https://doi.org/10.1016/B978-0-12-813066-7.00010-3 | Academic Press, USA | 2018 |
| 23 | Kumar M, Kumar J, and **Chauhan NS** (2015). Metagenomics: A Systemic Approach to Explore the Microbial World. pp 281-298. https://doi.org/10.1007/978-81-322-2595-9_18 | Springer-Heidelberg | 2015 |

**4. Research & consultancy Projects**

| S. No. | Year | Details | Status |
|---|---|---|---|
| 1 | 2012-2016 | Correlation of Microbial Enterotypes and Prakrti in diverse populations using Metagenomic approach. **Funding agency:** CSIR Ayurgenomics Unit: TRISUTRA | Completed |
| 2 | 2012-2015 | Metagenomic analysis of the Human Gut Microbiome and elucidation of genes involved in the catabolism of wheat dietary proteins. **Funding agency:** University Grants Commission New Delhi | Completed |
| 3 | 2012-2015 | Functional Metagenomics to Mine the Human Gut Microbiome for Dietary Fiber, Gluten,and Polyphenol Catabolic Enzymes. **Funding agency:** CSIR, New Delhi | Completed |
| 4 | 2015-2017 | Microbiome of the human lung in COPD patients attending Vallabh Bhai Patel Chest Institute, Delhi. **Funding agency:** Department of Biotechnology, Govt. of India | Completed |
| 5 | 2012-2015 | Synthesis, Characterization of Nanocurcumin and its medicinal applications. **Funding agency:** Department of Biotechnology, Govt. of India | Completed |
| 6 | 2013-2018 | Bioactive molecules from Microbes and plant sources. **Funding agency:** Department of Biotechnology, Govt. of India | Completed |
| 7 | 2020-2024 | Water Security theme under Delhi Research Implementation and Innovation (DRIIV). **Funding agency:** Principal Scientific Advisor, Govt of India | Completed |
| 8 | 2021-2022 | Genomic Sequencing of SARS CoV2) **Funding agency:** Health Department, Haryana Government | Completed |
| 9 | 2022-2023 | Microlab-based SARS Cov2 genome surveillance. **Funding agency:** CSIR-IGIB and FIND, USA | Completed |
| 10 | 2023-2024 | Food Allergy and Atopic Diseases Collaboration in India (FACE India) - Evaluation of Microbiome in Indian Children. **Funding agency:** Northwestern University, Illinois USA | Completed |

**5. Research Supervision Overview**

| S. No. | Level | Degree Awarded | Thesis Submitted |
|---|---|---|---|
| 1 | Ph.D. | 08 | --- |
| 2 | P.G. | ~90 | --- |

**6. Patents/technology developed**

| S. No. | Year | Particulars / Details | Published/Granted |
|---|---|---|---|
| 1 | 2006 | IMPROVED IMMOBILIZED PROTEINS COMPOSITION AND ITS PROCESS THEREOF" Application No. 2394/DEL/2004, Publicationdate (U/S 11A): 08/09/2006. | Granted |

**7. Honors & Awards**

| S. No. | Title of Award | Awarding Agency | Particulars / Details |
|---|---|---|---|
| 1 | Ranked within the Top 2% of Scientists | Standford University | 2022, 2023 and 2024 |
| 2 | Research Appreciation Awards | Maharshi Dayanand University, Rohtak, Haryana -124001 | 2021 & 2022 |
| 3 | Gold Medal with Certificate of Appreciation | Roche Diagnostics & Applied Sciences | 2009 at Pattaya, Thailand |
| 4 | First Prize for paper presentation | BRSI Convention & International Conference at Vallabh Vidya Nagar, Gujrat | 2006 at Vallabh Vidya Nagar, Gujrat |
| 5 | Research Fellowship | University Grant Commission/CSIR | 2004-2008 |
| 6 | RS Rana Memorial Award | Annual Meeting of Microbiologists of India (AMI) | 2005 at Osmania University, Hyderabad |
| 7 | University Gold Medal and Merit Certificate in Post Graduation | Maharshi Dayanand University, Rohtak, Haryana -124001 | 2004 |
| 8 | Merit Certificate in Academics | Dronacharya Government College, Gurugram | 2001-2002 |
| 9 | Haryana State Government Silver Jubilee Fellowship | Government of Haryana | (2002-2004) |

**8. Details as Resource person (Seminar / Conference / Lectures delivered etc.)**

| S. No. | Details | Number in total | |
|---|---|---|---|
| | | National | International |
| a | Seminar/Conference | **25** | **9** |

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|---|---|---|---|
| b | Workshops | **05** | **--** |
| c | Chairperson | **01** | **02** |

**9. Membership details of Statutory Committees of this University**

| S. No. | Period | Particulars / Details |
|---|---|---|
| 1 | Life Member | INDIAN NETWORK FOR SOIL CONTAMINATION RESEARCH |
| 2 | Member | The Indian SARS-CoV-2 Genomics Consortium (INSACOG), Department of Biotechnology, Govt. Of India |

**10. Any other Achievements:**

| S. No. | Period | Particulars / Details |
|---|---|---|
| 1 | 2022 | World Health Organization`s (WHO) ACT Accelerator Research Report appraised outcome of Research project "Microlab-based SARS Cov2 genome surveillance" |
| 2 | 2022 to Date | Academic Editor in Scientific Reports (Nature), Frontiers in Immunology, Frontiers in Physiology, Frontiers in Microbiology, Frontiers in Cellular and Infection Microbiology |