



Dr. Harish Chandra, Assistant Professor (Microbiology)

(M.Sc., PhD, CSIR-UGC NET-JRF, GATE, F.A.S.E.A, F.P.R.B)

Medical Microbiology, Aflatoxin, Antibiotic Resistance, Nanotechnology

1.	Name	Dr. Harish Chandra	
2.	Address of Institution	Botany & Microbiology, Gurukula Kangri (Deemed to be University), Haridwar- 249404 Email.hreesh5@gmail.com ; harish.chandra@gkv.ac.in Mob. 9456567555,7535096441	
3.	Date of Birth	05-12-1976	
4.	Academic Qualification	i.M.Sc (Microbiology) – Ist Division (2000)	Gurukula Kangri (Deemed to be University), Haridwar
		ii. Ph.D. (2009)	H. N. B. Garhwal University (A Central University), Srinagar
		iii. CSIR-NET JRF Dec 2001	MHRD
		iv. GATE-2002	MHRD
5.	Publication	A. Book: Authored: 03 1.Fundamental Techniques in Microbiology 2. Sustainable Practices for Waste management 3. Imperative Biotechnology B. Research Paper: 64	

Scopus ID: 56217142800

Patents

1. Anti-diabetic Potential in Root & Flower Extracts of Bhangira (*Perilla frutescens*). Inventors- Ajay Singh , Arunesh Kumar Dixit ,Rajendra Prasad, **Harish Chandra**, Application No. 202211028892 **Status: Published**
2. A method to present antimicrobial activity of TiO₂ and ZnO/GO nanomaterial on *Enterococcus Faecalis* MTCC439.Nidhi Verma. Deepti Vaya, Tejpal. Harish Chandra. Application No 202111034048 **Status: Published**

Best Research Publications

S.No	Year	Title of paper	Impact factor
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1.	2025	Sagar PK, Chandra Harish , Sagar A, Sajwan S, R Murugeswaran, Anti-Cancerous, Anti-Tumour, Anti- Carcinogenic agents - Herbal Medicinal Plants and their immense pharmacological, therapeutics medicinal potent values , Asian Journal of Pharmaceutical Research and Development. 2025; 13(1):238-258, DOI: http://dx.doi.org/10.22270/ajprd.v13i1.1521	
2.	2025	Sumit Chand, Annapurna Katara, Vijeta Chaudhry, Sagar Vishwakarma, Kartikey Kumar Gupta, Archana Yadav Harish Chandra. In Chapter 9. Harnessing Nanofertilizers Potential for Effective Plant Disease Management: Impact and Sources. Pankaj Kumar and R.C. Dubey (Ed) In: Nanofertilizers for Sustainable Agriculture: Assessing Impacts on Health, Environment, and Economy.pp 205-233.	SCOPUS
3.	2024	Nidhi Verma, Tejpal Singh Chundawat, Harish Chandra , and Dipti Vaya. Role of ZnO/GO nanocomposite in photocatalytic degradation of mixture of organic pollutants and antimicrobial activity. Chemistry Select., 9, e2023030	2.307
4.	2024	Vishwakarma, S., Chaudhry, V., Chand, S., Sagar, K., Gupta, K.K., Bhardwaj, N., Prasad, R., Kumar, P., Chandra, Harish (Corresponding Author) . The Potential of Fungal Endophytes in Plants: Sources of Bioactive Compounds. <i>Indian J Microbiol</i> (2024). https://doi.org/10.1007/s12088-024-01406-3	2.8
5.	2024	Harish Chandra , Archana Yadav, Rajendra Prasad, Kalpana Sagar, Nitin Bhardwaj, Kartikey Kumar Gupta, Ghanshyam Singh Thakur, Manisha Nigam, Raffaele Pezzani, João Paulo Martins de Lima, Henrique Douglas Melo Coutinho, Abhay Prakash Mishra, COVID 19: Prevention and treatment through the Indian perspective, Cytokine, Volume 183,2024, 156756, ISSN 1043-4666, https://doi.org/10.1016/j.cyto.2024.156756 . (https://www.sciencedirect.com/science/article/pii/S1043466624002606)	3.7
6.	2024	Harish Chandra , Chaudhry, V., Sagar, K. <i>et al.</i> Effect of hawan samagri used for the agnihotra against human pathogenic bacteria responsible for foodborne and airborne infections. <i>Vegetos</i> (2024). https://doi.org/10.1007/s42535-024-00928-x	SCOPUS
7.	2024	Harish Chandra and Ashok K. Rathoure.2024. Detecting Ecological Changes for Sustainable Futures. In Chapter 3 Biodiversity Loss Assessment for Ecosystem Protection Ed: AshoK. Rathoure pp 40-48 publishe IGI Global USA 9798369333303 (hardcover) ISBN 9798369345108 (paperback) ISBN 9798369333310 (ebook)	SCOPUS
8.	2024	Harish Chandra Vijeta Chaudhry,Kalpana Sagar· Surbhi Pradhan, Sateesh Chandra Gupta, Ghanshyam Singh Thakur, R. C. Dubey. Effect of hawan samagri used for the agnihotra against human pathogenic bacteria responsible for foodborne and airborne infections Vegetos https://doi.org/10.1007/s42535-024-00928-x	SCOPUS
9.	2024	Nidhi Verma, Tejpal Singh Chundawat, Harish Chandra , M.verma and Dipti Vaya. Role of GO content in ZnO/@ x wt% GO NCs for the reduction of Cr(VI) pollutant from wastewater stream. International Journal of Environmental Science and Technology https://doi.org/10.1007/s13762-024-05712-7	3.0
10.	2024	Harish Chandra , Archana Yadav, Rajendra Prasad, Swinder Jeet Singh Kalra, Ajay Singh, Nitin Bhardwaj, Kartikey Kumar Gupta,	SCOPUS

		Fungal endophytes from medicinal plants acting as natural therapeutic reservoir, The Microbe, Volume 3, 2024, 100073, ISSN 2950-1946, https://doi.org/10.1016/j.microb.2024.100073 .	
11.	2024	Annapurna Katara, Sumit Chand, Harshvardhan Chaudhary, Vijeta Chaudhry, Harish Chandra (Corresponding author) , Ramesh Chandra Dubey, Evolution and applications of Next Generation Sequencing and its intricate relations with chromatographic and spectrometric techniques in modern day sciences, Journal of Chromatography Open, 5, 100121, ISSN 2772-3917, https://doi.org/10.1016/j.jcoa.2024.100121 .	SCOPUS
12.	2024	Katara A, Chand S, Chaudhary H, Chandra H (Corresponding author) , Dubey RC. Microbial diversity of river Ganga at Haridwar (Uttarakhand) through metagenomic approaches. J App Biol Biotech. 2024;12(2):295-303. http://doi.org/10.7324/JABB.2024.171556 .	SCOPUS
13.	2023	K.K.Gupta, K.K. Sharma, Harish Chandra . Utilisation of <i>Bacillus cereus</i> strain CGK5 associated with cow feces in the degradation of commercially available high-density polyethylene (HDPE). Archives in Microbiology. 205:101	2.667
14.	2024	Oppurtunities and challenges in the development of antiparasitic drug. Maryam Bello-Akinosho, Kayode Olayinka, Harish Chandra, Dearikha Karina Mayashinta, Yulia Dwi Setia, Abhay Prakash Mishra, Carolina Pohl-Albertyn In: Parasitic Infection Immune responses and Therapeutics, Abhay Prakash Mishra and Manisha Nigam (Ed.), pg 227-250. John Wiley and Sons, USA, ISBN 9781119878025	SCOPUS
15.	2023	Effect of plant growth promoting rhizobacteria, <i>Bacillus cereus</i> and <i>Pseudomonas aeruginosa</i> on early seedling growth and seed germination of <i>Cinnamomum tamala</i> (Buch. -Ham.) Neese and Eberm. Soban Prakash, Ankit Singh, Harish Chandra , Archana Yadav, Swinder Jeet Singh Kalra, A.R. Nautiyal and Babita Patni 1. Medicinal Plants.15 (3), 425-438	SCOPUS
16.	2023	Gupta, K. K., Sharma, K. K., Harish Chandra. , Panwar, H., Bhardwaj, N., Altwaijry, N. A., Alsouk, A. A., Dlamini, Z., Afzal, O., Altamimi, A. S., Khan, S., & Mishra, A. P. (2022). The integrative bioinformatics approaches to predict the xanthohumol as anti-breast cancer molecule: Targeting cancer cells signaling PI3K and AKT kinase pathway. <i>Frontiers in Oncology</i> , 12. https://doi.org/10.3389/fonc.2022.950835	6.2
17.	2023	N. Verma, T.S. Chundawat, Harish Chandra . Dipti Vaya. An efficient time reductive photocatalytic degradation of carcinogenic dyes by TiO ₂ -GO nanocomposite. Material Research Bulletein. 58	5.6
18.	2023	Bhardwaj, N., Chauhan, P., Harish Chandra. et al. Polydispersed Acid-Functionalized Single-Walled Carbon Nanotubes Induced the Integrin-Associated Protein (CD47) and Basigin (CD147) Expression and Modulated the Antioxidant Gene Expression in Erythroid Cells in Mice. <i>BioNanoSci.</i> (2023). https://doi.org/10.1007/s12668-023-01071-8	3.1
19.	2023	Gupta, K. K., Chandra, H., Sagar, K., Sharma, K. K., & Devi, D. (2023). Degradation of high-density polyethylene (HDPE) through bacterial strain from Cow faeces. <i>Biocatalysis and Agricultural Biotechnology</i> , 48, 102646. https://doi.org/10.1016/j.bcab.2023.102646	4.0

20.	2022	K.K.Gupta, Kamal Kant, Harish Chandra . <i>Micrococcus luteus</i> strain CGK112 isolated from cow dung demonstrated efficient biofilm-forming ability and degradation potential toward high-density polyethylene (HDPE), Archives of Microbiology, Vol 204, 2022, pp.402	2.667
21.	2022	Meena, J., Harish Chandra , Warkar, S.G. Caboxymethylcellulose tamarind kernel gum/ZnO-biocmposite: As an antifungal and hazardous metal removal agent. Journal of New Material for Electrochemical Systems. 25(2):57-64	1.316
22.	2022	Harish Chandra , P. Kumari, Archana Yadav, S. Yadav, 2022. Chapter 5 - Green biosynthesized metallic nanoparticles and future biomedical applications, Editor(s): Uma Shanker, Chaudhery Mustansar Hussain, Manviri Rani, In Micro and Nano Technologies, Green Nanomaterials for Industrial Applications, Elsevier, 2022, Pages 93-105, ISBN 9780128232965, https://doi.org/10.1016/B978-0-12-823296-5.00005-8 .	SCOPUS
23.	2022	Nitin Bhardwaj, A.Singh, Harish Chandra , K K, Gupta., Paraquat treatment modulates the stress erythropoiesis response in bone marrow and liver of splenectomized mice, Chemical Biology Letters, Vol 9, No.2 2022, pp 306.	2.2
24.	2021	P. Kumari, A. Gupta, Harish Chandra , P. Singh, S. Yadav.2021. Chapter 6. Effects of Salt Stress on the Morphology, Anatomy, and Gene Expression of Crop Plants. Book Editor(s):Pratibha Singh,Madhulika Singh,Rajiv Kumar Singh,Sheo Mohan Prasad. First published: 01 October 2021. Pp 87-105 (Wiley) https://doi.org/10.1002/9781119700517.ch6	Wiley (International)
25.	2021	Nitin Bhardwaj and Harish Chandra . Impact of lockdown intervention on the spread of COVID-19 in India. Journal of Global Infectious Disease (Bentam Publisher).	SCOPUS
26.	2021	Harish Chandra , P. Kumari, Rajendra Prasad, S.C. Gupta, S.Yadav. Antioxidant and antimicrobial activity displayed by fungal endophyte Alternaria alternata isolated from <i>P. kurroa</i> from Garhwal Himalayas. Biocatalysis and Agricultural Biotechnology. 2021, v.33 pp. 101955 (Elsevier) ISSN 1878-8181. 33: 101955	4.0
27.	2020	Harish Chandra , Chanchal Singh, Pragati Kumari, Saurabh Yadav, Abhay P. Mishra et al. Promising Roles of Alternative Medicine and Plant-Based Nanotechnology as Remedies for Urinary Tract Infections. <i>Molecules</i> . 25:5593; doi:10.3390/molecules25235593	4.927
28.	2020	P. Kumar, Pahal, V., Gupta, A., Vadhan, R., Harish Chandra (Corresponding Author) , Dubey, R.C.2020. Effect of silver nanoparticles and <i>Bacillus cereus</i> LPR2 on the growth of <i>Zea mays</i> . Scientific Reports . 10. https://doi.org/10.1038/s41598-020-77460-w	4.996
29.	2020	Harish Chandra , P.Kumari, Ritesh Bisht, Rajendra Prasad, S. Yadav. Plant Growth promoting <i>Pseudomonas aeruginosa</i> <i>Valeriana wallachi</i> displays antagonistic potential against three phytopathogenic fungi. Molecular Biology Reports. http://doi.org/10.1007/s10333-020-05676-0	2.742
30.	2020	Harish Chandra , P.Kumari, Elza Bontempi, S. Yadav. Medicinal Plants: Treasure trove for green synthesis of metallic nanoparticle and their	4.0

		biomedical. Biocatalysis and Agricultural Biotechnology (Elsevier). 24:101518	
31.	2020	R. Naseri, S.J.Navabi, Samimi, A.P.Mishra, M. Nigam, Harish Chandra . Targeting glycoprotein as a therapeutic strategy for diabetes mellitus and its complications. DARU Journal of Pharmaceutical Sciences. http://doi.org/10.1007/s40199-020-00327-y	4.088
32.	2020	Harish Chandra and R.C. Dubey. Bioremediation—With Special Reference to Hydrocarbon Degradation. In: Bioremediation Technology: Hazardous waste management. Ed. M.H.Fulekar and Bhawna Pathak. CRC press, Chapter 10, pp 215-223 (ISBN No. 978-0367273101)	Book Chapter International
33.	2019	Harish Chandra , Deepak Patel, P. Kumari, J.S.Jangwan, Saurabh Yadav. Phytomediated synthesis of zinc oxide nanoparticles of <i>Berberis aristata</i> : Characterisation, antioxidant activity, and antibacterial activity of with special reference to urinary tract infection. Material Science and Engineering C.102:212-220	8.3
34.	2018	Patni, B., Harish Chandra , Mishra, A.P., Guru, S. K., Vitalini, S., Iriti, M. Rice allelopathy in weed management- An Integrated approach. Cell and Molecular Biology. 64 (8):84-93	1.77
35.	2018	Harish Chandra , Pragiti Kumar, Saurabh Yadav. Evaluation of aflatoxin contamination in crude medicinal plants used for the preparation of herbal medicine. Oriental Pharmacy and Experimental Medicine (Springer) . https://doi.org/10.1007/s13596-018-0356-4 .	SCOPUS
36.	2018	Deepak Patel, J.S. Jangwan and Harish Chandra 2018. Green synthesis of zinc oxide nanoparticles using leaf extract of <i>Hedera nepalensis</i> K. Koch and its biological activity. <i>Medicinal Plants</i> . 10 (1):43-51.	SCOPUS
37.	2018	Kuldeep Rana, Neha Wal and Harish Chandra . 2018. Typhoid malaise in North Indian city Saharanpur (U.P.): A case study. <i>Res. Environ. Life Sci.</i> , 11(04) 155-160 (Corresponding Author) p-ISSN: 0974-4908.	Peer reviewed
38.	2017	Harish Chandra , Parul Bishnoi, Archana Yadav, Babita Patni, Abhay Prakash Mishra and Anant Ram Nautiyal.2017. Antimicrobial Resistance and the Alternative Resources with special Emphasis on Plant-Based Antimicrobials—A Review. <i>Plants</i> 6(2):16. . (ISSN 2223-7747)	4.658
39.	2017	Jatin K. Srivastava, Harish Chandra , Swinder J. S. Kalra, Pratibha Mishra, Hena Khan, Poonam Yadav.2017. Plant-microbe interaction and their role in the management of water quality: a review. <i>Applied Water Science</i> (Springer). 7:1079– 1090 DOI 10.1007/s13201-016-0415-2	5.411
40.	2017	Sarla Saklani, A. P. Mishra, Harish Chandra , Maria Stefanova Atanassova , Milan Stankovic , Bhawana Sati, Mohammad Ali Shariati, Manisha Nigam, Mohammad Usman Khan, Sergey Plygun, Hicham Elmsellem and Hafiz Ansar Rasul Suleria. 2017. Comparative Evaluation of Polyphenol Contents and Antioxidant Activities between Ethanol Extracts of <i>Vitex negundo</i> and <i>Vitex trifolia</i> L. Leaves by Different Methods. <i>Plants</i> , 6, 45; doi:10.3390/plants6040045. (ISSN 2223-7747) (<i>corresponding author</i>).	4.658
41.	2017	Harish Chandra , Archana Yadav, Rajendra Prasad and Babita Patni. 2017. Assessment of microbiological quality of raw medicinal plants used for the preparation of Ayurvedic drugs. <i>Medicinal Plants</i> . 9 (4):296-300.	SCOPUS

42.	2016	Jatin Srivastava, Harish Chandra , Nandita Singh, S.J.S.Kalra.2016. Understanding the development of environmental resistance among microbes: A Review. CLEAN-soil, Air, water (John Wiley) . 44 (9999), 1–8	1.770
43.	2016	Harish Chandra , Dobhal P, Patani B, Nautiyal AR (2016). Antagonistic effect of <i>Pseudomonas</i> spp. Isolated from rhizospheric soil of <i>Picrorhiza kurroa</i> (Kutki) against phytopathogenic fungi. <i>Med Plants</i> 8(4):328-333.	SCOPUS
44.	2016	Archana Yadav, Jyoti and Harish Chandra .2016. Screening of Rhizobial Isolates for the Production of Plant Growth Promoting Bioformulations by Using Different Carriers. International J. Plant Reproductive Biology . 8 (Special Volume), pp.30-36 (ISSN 0975-4296) (<i>corresponding author</i>)	Peer Reviewed
45.	2014	Jatin Srivastava, Harish Chandra , A.R.Nautiyal, S.S.Kalra. 2014. Antimicrobial resistance (AMR) and plant-derived antimicrobials 3 (PDAMs) as an alternative drug line to control infections. 3Biotech (Springer) . ISSN: 2190-572X (Print) 2190-5738 (Online). 4:451-460. DOI 10.1007/s13205-013-0180-y	2.893
46.	2014	J. Srivastava , R. Naraian, S. J. S. Kalra, Harish Chandra . 2014. Advances in microbial bioremediation and the factors influencing the process. <i>International Journal of Environmental Science and Technology</i> (Springer). DOI10.1007/s13762-013-0412-z 11:1787-1800.	3.519
47.	2013	Pavan Kumar Agarwal, Sumit Kumar Rai, Shruti Agarwal, Harish Chandra .2013.Study of Genotypic Diversity of Rhizobia from Legume Crops and Its Application as A Bioinoculant in Sustainable Agriculture Development. <i>Asian Journal of Experimental Biological Science</i> . 4(3):437-441.	Peer Reviewed
48.	2012	Jatin Srivastava, Harish Chandra , A.R.Nautiyal, Swinder J. S. Kalra. 2012. Response of C ₃ and C ₄ plant systems exposed to heavy metals for phytoextraction at elevated atmospheric CO ₂ and at elevated temperature. In: Environmental Contamination, InTech Janeza Trdine 9, 51000 Rijeka, Croatia, Europe, Chapter 1. Pp 3-16 (Edited by Jatin Kumar Srivastava) (ISBN 978-953-51-0120-8).	Book Chapter International
49.	2011	Harish Chandra , Anil Bhatia, O.P.Sidhu, A.R.Nautiyal, H.M.Behl.2011. Determination of aflatoxin level in peanut using immunaffinity column combined with ELISA. <i>Environment Conservation Journal</i> . 12(3):13-17.(ISSN: 0972-3099)	SCOPUS
50.	2010	Pankaj kumar1, R.P. Bhatt, Lokendra Singh, Shailja, Harish Chandra and R. Prasad. 2010. Identification of Phytochemical Content and Antibacterial Activity of <i>Juniperus Communis</i> Leaves. <i>International Journal of Biotechnology and Biochemistry</i> . 6(1): 87-91.(ISSN 0973-2691)	Peer Reviewed
51.	2010	Harish Chandra , Beauty Singh, Jatin Srivastava, Rajendra Prasad, A.R.Nautiyal. 2010. Seroprevalence of Typhoid in Dehradun Valley (Uttarakhand), India. <i>Research in Environment and Life Science</i> .3(2):65-68. (ISSN: 0974-4908)	Peer Reviewed
52.	2010	Punam Joshi, Manoj Gahlot and Harish Chandra .2010. In vitro Antimicrobial activity and GCMS Analysis of <i>Anethum graveolens</i> L. <i>Environment Conservation Journal</i> .11(3): 103-107. (ISSN: 0972-3099)	SCOPUS

53.	2010	Jatin Srivastava, Dinesh Shukla, Ram Narain, Vishal Chand, Harish Chandra , A.R. Nautiyal. 2010. Mycorrhizal colonization affects the survival of <i>Vetiveria zizanioides</i> (L.) Nash grown in water containing As (III). <i>CLEAN – Soil, Air, Water</i> (John Wiley), 38 (8), 771–774 (ISSN: 1863-0669)	1.770
54.	2009	O.P.Sidhu, Harish Chandra , H.M.Behl.2009. Occurrence of aflatoxins in mahua (<i>Madhuca indica</i> Gmel.) seeds: Synergistic effect of plant extracts on inhibition of <i>Aspergillus flavus</i> growth and aflatoxin production. <i>Food and Chemical Toxicology</i> .47(4):774-777.(ISSN: 0278-6915)	6.023
55.	2009	Aditi Grover, B.S.Bhandari, Nishant Rai, Harish Chandra .2009. Antifungal activity of <i>Lantana camara</i> and <i>Syzygium aromaticum</i> against <i>Candida albican</i> . <i>Environmental Conservation Journal</i> .10(1&2):103-107 (ISSN: 0972-3099)	SCOPUS
56.	2009	Jatin Srivastava, Nandita Singh, Harish Chandra , Dharam Singh and A.R. Nautiyal.2009. Removal of soluble reactive phosphorus (SRP) from water by aquatic macrophytes. <i>Research in Environment and Life Science</i> . 2(3) 167-172. (ISSN: 0974-4908).	Peer Reviewed
57.	2008	Jatin Srivastava, Amit Gupta, Harish Chandra .2008. Managing water quality with macrophytes. <i>Reviews in Environmental Science and Biotechnology</i> .7:255-266. (ISSN: 1572-9826)	14.282
58.	2008	Jatin Srivastava, Harish Chandra , Kirti Tripathi, Ram Narain, Ranjeev K. Sahu (2008). Removal of Chromium (VI) through biosorption by the <i>Pseudomonas</i> spp. isolated from tannery effluent. <i>Journal of Basic Microbiology</i> .48(2):135-139.(ISSN: 1521-4028)	2.650
59.	2007	Jatin K. Srivastava, Harish Chandra , Nandita Singh. (2007). Allelopathic effect of <i>Vetiveria zizanioides</i> (L.Nash) on certain members of family Enterobacteriaceae. <i>Environment Systems and Decision</i> (Formerly the <i>Environmentalist</i>). <i>Springer</i> .27(2):253-260. ISSN1573-2991(Electronic Version).	SCOPUS

Gene Submitted to NCBI, USA

1. **Harish Chandra**, Babita Patni, J.Srivastava, A.R.Nautiyal, M.C. Nautiyal. 16s RNA gene sequencing *Bacillus cereus* HAPRC B4 was done and gene sequencing was submitted to Gene bank, NCBI, USA (Submission ID 1734312) (Accession number KM036215) date of submission **11 June 2014**
2. **Harish Chandra**, Babita Patni, J.Srivastava, A.R.Nautiyal, M.C. Nautiyal. 16s RNA gene sequencing of *Achromobacter xylosoxidans* HAPRC K4 was done and sequence is submitted to Gene bank, NCBI, USA (Submission ID 1734319) (Accession number KM036216) date of submission **11 June 2014**
3. **Harish Chandra**, Kumar, P., Bisht, R., Yadav, S. 16s RNA gene sequencing of *Pseudomonas aeruginosa* strain vel 1 was done and sequence is submitted to Gene bank, NCBI, USA (Accession number MH290508.1) date of submission **10 May 2018**

Project

1. ICMR Sponsored Project” Modulation of erythrocytes turnover and erythropoiesis in mouse model of anemia of cancer” (Total Cost: 22Lacs) (Co-PI).
2. UGC sponsored Project “**Bioprospecting of Picrorhiza kurrooa Royle ex enth through metabolomics of endophytes (Rs. 10.0 Lacs) (PI)**

STUDENT GUIDED

- Guided M.Sc Thesis of 18 student as guide and 9 student as Co-guide, M.Tech as coguide 12. Presently guiding 4 PhD scholar, M.Phil (4).
- Awarded 04 PhD Student, and 04 Enrolled

Conference/ Seminar/workshop/orientation/Refresher Course/Invited Lecture

- 1 Participated in cooperators training Programme on —characterization, regeneration, & post handling care if genetic resources of horticultural crops /plants under National Agricultural Technology Project on sustainable management of plant bio-diversity (**NATP-PB**) organized from 29 to 31 Oct 2002 in collaboration with National Botanical Research Institute (**NBRI**) & Central Institute of Sub-tropical Horticulture (**CISH**) at **N.B.R.I**, Lucknow.
- 2 Participated in National Conference on **Role of bio-pesticide and bio-fertilizers for sustainable Agriculture and Horticulture** from 13-16 Feb 2004 at Lucknow.
- 3 Participated in the National Symposium on **Recent Advances in Sciences:. A prospective** at Dolphin (P.G.) Institute of Biomedical and natural Sciences, Manduwala, Dehradun, June 3-5, 2005
- 4 Participated in National Symposium on Medicinal Plant: **Conservation and Utilisation II**, 9-11 March 2007 at Gurukul Kangri Vishwavidyalaya, Haridwar.
- 5 **The Usage of Radioisotopes in Biology.** Organized by Board of radioactive isotope technology (Govt. of India) and Dolphin (PG) Institute of Biomedical and Natural Sciences. Held at DIBNS Dehradun on 27 to 29th of November 2005.
- 6 Participated in Workshop on —**Environmental Education for Teachers**” From 5th to 7th June 2006 held at Dolphin (P.G.) Institute of Biomedical and natural Sciences, Manduwala, Dehradun.
- 7 Participated in Hands on Training on **Fermentation technology** organized by Dolphin (PG) Institute of Biomedical and Natural Science, Dehradun,

Uttarakhand in association with Geo Marine Biotechnologies Pvt Ltd, Chennai on 7th -9th October 2009.

- 8 Participated in Workshop on **Microbial technology and its application** organized by Dolphin (PG) Institute of Biomedical and Natural Science, Dehradun, Uttarakhand in association with Geo Marine Biotechnologies Pvt Ltd, Chennai on 10th -11th October 2009.
- 9 Participated in Regional seminar on **Intellectual Property and Innovation Management in Knowledge Era** organized by the Graphic Era University in Collaboration with National Research Development Corporation held on 13th - 14th October 2009.
- 10 Participated in Continuing Medical Education cum Workshop in **Immunology** held at Himalayan Institute of Medical Sciences, Dehradun, Uttarakhand from 22nd -23rd January 2011.
- 11 Participated in National Seminar on —**Environmental Management and Biodiversity Conservation**” Jointly organized by Action for Sustainable Efficacious development and Awareness and MANU-International Council for Man and Nature held at Omkarananda Institute of Management and Technology, Rishikesh from 26th -27th Feb 2011.
- 12 Participated in the international Conference on — **Global climate change and Biodiversity conservation WCMANU-2011** held at the department of Zoology and Environmental Sciences, Gurukul Kangri Vishwavidyalya, Haridwar, Uttarakhand (11th -13th Nov 2011)
- 13 Participated in Short Term Course on —**Recent Advances in Nanomedicine (from bench to bedside)**” held in the Department of Chemistry and Centre for Nanotechnology, I.I.T, Roorkee (4th June -8th June 2012).
- 14 Participated and presented paper in 32nd Annual Session of The Academy of Environmental Biology and National Seminar on — Emerging pollutants and pathogens: Challenges and risk Reduction organized by CSIR-Indian Institute of Toxicology Research, Lucknow and The Academy of Environmental Biology, Lucknow (20th – 22nd September, 2012).
- 15 Participated in 17th **Annual Convention of Society of Pharmacognosy and International symposium on frontiers in Herbal Cosmetics and Nutraceuticals** held at the Gyani Inder Singh Institute of Professional Studies, Dehradun (23-24th Feb 2013).

- 16 Participated in **National Seminar on Combating Disasters in the Himalaya** held at H.N.B.Garhwal University, Srinagar, Garhwal, Uttarakhand on 9th September 2013.
- 17 Participated in Short Term Course on —**Ecotechnology for Sustainable**” held in the Department of Applied Science, Biotechnology and Civil Engineering, G. B. Pant Engineering College, Ghurdauri, Pauri, Garhwal (21 Oct -25th Oct 2013).
- 18 Participated in Advance Training Program on SPSS organized by Department of Statistic, H. N. B. Garhwal University, Srinagar, Garhwal (30th -31st Jan 2014).
- 19 Participated and presented paper in **National Seminar on Environmental Disaster: Challenges and Management** at Rajkiya Mahavidyalaya, Behat, Sharanpur (21-22 Feb 2014).
- 20 Participated and presented paper in **National Conference on Recent Advances in Biosciences and Drug discovery** organized by Department of Pharmaceutical Sciences held Gurukul Kangri University, Haridwar (3-4 March 2014) .
- 21 Participated and presented paper in **Fifth International Conference on Plants and Environment Pollution** organized by National Botanical Research Institute, Lucknow (24-27 Feb, 2015) .
- 22 Participated in Short Term Course on **Nanotechnology: Basic and Application in Chemical Engineering** organized by Indian Institute of Technology, Roorkee (22-26 July, 2015).
- 23 Participated and presented paper in **National Conference on Microbes of Extreme Environment: Diversity and Translational Application** organized by Department of Botany and Microbiology, H. N.B. Garhwal University, Srinagar, Garhwal (30-31 Oct, 2015).
- 24 Participated in Orientation Program-122 organized by MHRD-ASC, Lucknow University, Lucknow from 1.12.2015 to 31.12.2015(Duration: 1 month) .
- 25 Participated in National Workshop and Seminar on taxonomic keys and identification of different groups of flora and Fauna including molecular tools organized by Department of Zoology and Environmental Science, Gurukul Kangri Vishwavidyalaya, Haridway from 28-30 Mar 2016.
- 26 Participated and presented paper in **National Symposium in Biofuel: Indian Scenario** organized by Department of Chemistry, Food tech and Biotech, Uttaranchal University, Dehradun (29th April 2016).
- 27 Participated in Winter school (Refresher course)-122 organized by MHRD-ASC, Lucknow University, Lucknow from 9.12.2016 to 31.12.2016 (Duration: 21 days).
- 28 **Delivered invited Lecture on —Antibiotic resistance** in — National conference on Recent advances in Science and Technology, 27 and 28 Feb, 2017 organized by Uttaranchal College of Applied and Life Science, Uttaranchal University, Dehradun.

- 29 Participated and presented poster titled Isolation and identification of pathogenic microorganism in street vended fruit juices from Kanpur city in Trends in Biosciences: Recent development and future prospects, 19th August 2017 organized by Institute of Bioscience and Biotechnology, C.S.J.M. University, Kanpur.
- 30 Participated and presented paper titled “Green synthesis of Nanoparticles”: In National conference on Renewable Energy: Present and Future perspective in research and industries, 28 Feb 2018 to 1st Mar 2018 organized by Aryakul College of Pharmacy and Research, Lucknow, U.P.
- 31 Organizing secretary National Seminar On Inovative Approaches in Microbial Technology (IAMT, 2019) March 8-9, 2019.
- 32 Organizing secretary World Rabies Day 28 September, 2019.
- 33 Participated in one month Faculty Induction Program organized by Sri Lal Bahadur Sastri Rashtriya Sanskrit Vidyapeetha, Teaching Learning Centre under PMMMNMTT scheme, MHRD, Govt. of India from 5th Nov to 04th Dec 2019.
- 34 Awarded outstanding participant in overall activity in one month Faculty Induction Program organized by Sri Lal Bahadur Sastri Rashtriya Sanskrit Vidyapeetha, Teaching Learning Centre under PMMMNMTT scheme, MHRD, Govt. of India from 5th Nov to 04th Dec 2019,
- 35 Awarded Excellence in Education and Research Award-2019 in the National conference organized by ITS Haridwar, IPGA Uttarakhand ad Motherhood University, Roorkee (Date: 7th Nov. 2019)
- 36 **Organizing Secretary** in One day webinar on Research Projects, Collaboration and funding oppurtunities organized by Gurukula Kangri (Deemed to be University), Haridwar (6th Aug 2021).
- 37 **Coordinator in** Workshop on basic in application of computational biology (Bioinformatics) organized by Avastambh, Kanpur and GKV (14-16 Sept 2021).
- 38 Chairperson (Tech. Session) in National conference on Vedic Microbiology vs Modern Biotechnology organized by Faculty of Life Sciences, Gurukula Kangri (Deemed to be University), Haridwar (27-29th March, 2023).
- 39 Chairperson (Tech. Session) in National Seminar on COVID-19: Pre and Post covid impact on physical and Mental health organized by IQAC, Gurukula Kangri (Deemed to be University), Haridwar (14-15 March, 2022).
- 40 Delivered Guest Lecture in One week FDP cum Workshop on Application of computational tools in Research organized by School of Applied and Life Sciences, Uttaranchal University, Dehradun (31st May -5th June, 2024).
- 41 Participated in One-week Short Term Course **NEP-orientation and sensitization programme** organised by UGC-MMTTC, DDU Gorakhpur University, Gorakhpur from 16th to 24th October, 2023.

- 42 Coordinator in two days Hands on training “**Immunological Techniques for disease diagnosis**” organized by Department of Botany and Microbiology, Gurukula Kangri (Deemed to be University), Haridwar (26-27 September, 2024).
- 43 Participated in Refresher Course on Interdisciplinary Life Sciences (ID) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grant Commission (UGC) organized by UGC- MMTTC, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (CG) from **14-10-2024 to 26-10-2024** and Obtained Grade A+ .
- 44 Delivered Guest lecture on “Biopesticide and Insecticide production and their advantage on semisynthetic pesticide” organized by Department of Microbiology, Dolphin (PG) Institute of Biomedical Sciences, Manduwala, Dehradun (Date: 14.02.2025)



(Dr. Harish Chandra)