


CURRICULUM VITAE

Name	Dr. Sudhir Kumar Upadhyay	
Designation	Assistant Professor (Since 18 th sept, 2010), Department of Environmental Science	
Address for Correspondence	Department of Environmental Science V.B.S. Purvanchal University, Jaunpur-222003 (UP) India. E-mail: sku.env.lko@gmail.com ; drskuenv@vbspu.ac.in Mobile no- +919415992929.	
Date of Birth	12-07-1978	
Academic highlights	<p>Ph.D. -Environmental Science Year of Ph.D. degree award (2010-July) from B.B. Ambedkar University Lucknow, (A Central university) Lucknow, U.P. India. (Ph.D. thesis submitted on dated: 4-10-09). Ph.D. Topic “Development of Microbial Consortium for Alleviation of Salinity Stress for Growth and Yield of Wheat (<i>Triticumaestivum</i>)”. Ph.D. Guide: Prof. D.P. Singh, Dean and Head, School of Environmental Sciences, B.B. Ambedkar University (A Central University) Lucknow, India. Ph.D. Co-Guide: Dr. Anil K. Saxena, Director, National Bureau of Agriculturally Important Microorganisms (NBAIM) Kushmaur, Mau Nath Bhanjan, India.</p> <p>M.Sc.- Environmental Science M.Sc. (2002-2004) from V.B.S.P. University, Jaunpur, U.P-India, with 1st Division, (74.41%) along with 1st rank and received Gold Medal award. M.Sc. Dissertation work from National Environmental Engineering Institute (NEERI) Nagpur, Maharastra, INDIA. Guide: Dr. R. A. Pandey, (Scientist F), Department of Environmental Biotechnology Division, NEERI, Nagpur, Maharashtra, India.</p>	
Specialization	Salt tolerant Plant Growth Promoting Rhizobacteria and plant microbe interaction.	
Area of Interest	Salinity stress management, Plant microbe interaction, PGPR, Ecosystem and biodiversity conservation, Environmental pollution management, Soil restoration	
Fellowships/awards.	<ul style="list-style-type: none"> ➤ Young Scientist Award (2022) -5th DISHA-2022 ➤ Young Scientist Award (2018) in the International Conference on Food & Agriculture, by ICFA, Dhanbad, India. ➤ Senior Research Fellowship in 2009, MPUAT. ➤ University Gold medal in M.Sc. 2004. 	

	➤ NET (Environmental Science) and SLET (Environmental Science)
Teaching experience at University level (PG)	More than 13 Years [Since 18 th September 2010 as Assistant professor in the Department of Environmental Science, V. B.S. Purvanchal University, Jaunpur, UP India.
Courses assigned in PG Classes	Ecosystem Dynamics, Water Pollution, Atmospheric Pollution, Eco conservation and Sustainable Development, Environmental Impact Assessment, Geosciences, Natural Resources and Its harnessing.
Ph.D. Supervised	One Ph.D. Thesis Submitted on the topic entitled “ Role of salt tolerant plant growth promoting rhizobacteria on maize (<i>Zea Mays</i> L.) plant under salinity stress”
Dissertation supervised (M. Phil.)	02
Dissertation Supervised (M. Sc.)	18 students

RESEARCH PUBLICATIONS

61	Sudhir K. Upadhyay* , Nitu Rani, Vinay Kumar, R. Mythili, Devendra Jain (2023). A review on simultaneous heavy metal removal and organo-contaminants degradation by potential microbes: Current findings and future outlook, Microbiological Research , 127419, https://doi.org/10.1016/j.micres.2023.127419 . Elsevier-Impact Factor:5.07
60	Prabhat K. Chauhan and Sudhir K. Upadhyay* (2023). Mixed consortium of salt-tolerant phosphate solubilizing bacteria improves Maize (<i>Zea mays</i>) plant growth and soil health under saline conditions, Molecular biotechnology , doi.org/10.1007/s12033-023-00771-6 . Springer-Impact factor: 2.86
59	Babita Thakur, Sukhminderjit Kaur, Manikant Tripathi, Sudhir K. Upadhyay* (2023). Exploring the potential of lactic acid bacteria and its molecular mechanism of action in the development of biosurfactants: Current finding and future outlook, Biotechnology and Genetic Engineering Reviews , https://doi.org/10.1080/02648725.2023.2216421 , Taylor & Francis, Impact factor: 4.2
58	Nitu Rani, Gurparteek Kaur, Sukhminderjit Kaur, Sudhir K. Upadhyay , Manikant Tripathi (2023). Development of Zn biofertilizer microbeads encapsulating <i>Enterobacter ludwigii</i> -PS10 mediated alginate, starch, poultry waste and its efficacy in <i>Solanum lycopersicum</i> growth enhancement, International Journal of Biological Macromolecules , 240, 124381, https://doi.org/10.1016/j.ijbiomac.2023.124381 . Elsevier-Impact factor: 8.025
57	Shakeel Q, Mubeen M, Sohail MA, Ali S, Iftikhar Y, Tahir Bajwa R, Aqueel MA, Upadhyay SK , Divvela PK and Zhou L (2023). An explanation of the mystifying bakanae disease narrative for tomorrow’s rice. Front. Microbiol. 14:1153437. doi:10.3389/fmicb.2023.1153437 Impact Factor: 6.064
56	Singh D, Jain D, Rajpurohit D, Jat G, Kushwaha HS, Singh A, Mohanty SR, Al-

	Sadoon MK, Zaman W and Upadhyay SK (2023), Bacteria assisted green synthesis of copper oxide nanoparticles and their potential applications as antimicrobial agents and plant growth stimulants. Front. Chem. 11:1154128.doi:10.3389/fchem.2023.1154128. Impact factor: 5.545
55	Pratiksha Singh, Rajesh Kumar Singh, Hai-Bi Li, Dao-Jun Guod, Anjney Sharma, Krishan K Verma, Manoj Kumar Solanki, Sudhir K. Upadhyay , Prakash Lakshmanan, Li-Tao Yang and Yang-Rui Li, (2023) Nitrogen fixation and phytohormone stimulation of sugarcane plant through plant growth promoting diazotrophic <i>Pseudomonas</i> . <i>Biotechnology And Genetic Engineering Reviews</i> https://doi.org/10.1080/02648725.2023.2177814 . Taylor & Francis, Impact factor: 4.200
54	Chauhan P.K., Upadhyay* S.K. (2023). Exo-polysaccharide producing bacteria can induce maize plant growth and soil health under saline conditions, , <i>Biotechnology and Genetic Engineering Reviews</i> , 1-20, https://doi.org/10.1080/02648725.2022.2163812 , Taylor & Francis, Impact factor: 4.200
53	Upadhyay S.K. , Devi P., Kumar V., Pathak H.K., Kumar P., Rajput V.D., Dwivedi P.(2023). Efficient removal of total arsenic (As ^{3+/5+}) from contaminated water by novel strategies mediated iron and plant extract activated waste flowers of marigold, Chemosphere , 313, 137551, doi.org/10.1016/j.chemosphere.2022.137551. Elsevier, Impact factor: 8.943
52	Jain D, Navariya JK, Bhojiya AA, Singh A, Mohanty SR, Upadhyay* SK , (2023). Bioprospecting of novel ligninolytic bacteria for effective bioremediation of agricultural by-product and synthetic pollutant dyes, Microbiological Research , 127330, ISSN 0944-5013, https://doi.org/10.1016/j.micres.2023.127330 . Elsevier, Impact factor : 5.7
51	Singh PP, Rai SK, Chaubey G, Upadhyay S K , Serosurveillance Consortium BHU. (2023). Estimation of real COVID-19 cases in India during the first wave. <i>IJID Reg. Mar</i> ; 6:80-83. Doi: 10.1016/j.ijregi.2023.01.008, Elsevier- Impact factor: 12.7.
50	Singh P, Singh R. K. Lib Hai-Bi, Guod D-J, Sharma A., Verma KK, Solanki MK, Upadhyay SK , Lakshmanan P, and Li Y-R, Yang Li-T (2023). Nitrogen fixation and phytohormone stimulation of sugarcane plant through plant growth promoting diazotrophic <i>Pseudomonas</i> , <i>Biotechnology and Genetic Engineering Reviews</i> , Taylor & Francis, Impact factor: 4.200 , https://doi.org/10.1080/02648725.2023.2177814
49	Rajput, V.D., Kumari, A., Upadhyay, S.K. , Minkina, T., Mandzhieva, S., Ranjan, A., Sushkova, S., Burachevskaya, M., Rajput, P., Konstantinova, E., et al. (2023). Can Nanomaterials Improve the Soil Microbiome and Crop Productivity? <i>Agriculture</i> , 13, 231. https://doi.org/10.3390/agriculture13020231 , MPDI, Impact Factor: 3.40
48	Chauhan S., Mahawar S., Jain D., Upadhyay S.K. , Mohanty S.R., Singh A., Maharjan E. (2022). Boosting Sustainable Agriculture by Arbuscular Mycorrhiza under Stress Condition: Mechanism and Future Prospective, BioMed Research International , 5275449, https://doi.org/10.1155/2022/5275449 , Hindawi, Impact factor: 3.246
47	Rani N., Kaur G., Kaur S., Mutreja V., Upadhyay S.K. , Tripathi M. (2022). Comparison of diversity and zinc solubilizing efficiency of rhizobacteria obtained from solanaceous crops under polyhouse and open field conditions, <i>Biotechnology and Genetic Engineering Reviews</i> , https://doi.org/10.1080/02648725.2022.2157949 , Taylor & Francis, Impact factor: 4.200

46	Upadhyay S.K. , Rajput V.D., Kumari A.,Espinosa-Saiz D., Menendez E., Minkina T., Dwivedi P., Mandzhieva S.(2022).Plant growth-promoting rhizobacteria: a potential bio-asset for restoration of degraded soil and crop productivity with sustainable emerging techniques. <i>Environ Geochem Health</i> . https://doi.org/10.1007/s10653-022-01433-3 , Springer, Impact factor: 4.898
45	Singh S., Rajput V.D., Upadhyay S.K. , Minkina T. (2022). Arsenic Contamination in Rice Agro-ecosystems: Mitigation Strategies for Safer Crop Production. <i>J Plant Growth Regul</i> . https://doi.org/10.1007/s00344-022-10863-3 , Springer, Impact factor: 4.640
44	Verma D., Meena R.H., Sukhwai A. Jat G., Meena S.C., Upadhyay S.K. , Jain D. (2022). Effect of ZSB with Graded Levels of Zinc Fertilizer on Yield and Zinc Uptake Under Maize Cultivation. <i>Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.</i> . https://doi.org/10.1007/s40011-022-01433-4 , Springer
43	Chauhan P.K., Upadhyay S.K. , Tripathi M., Singh R., Krishna D., Singh S.K. and Dwivedi P. (2022). Understanding the salinity stress on plant and developing sustainable management strategies mediated salt-tolerant plant growth-promoting rhizobacteria and CRISPR/Cas9, <i>Biotechnology and Genetic Engineering Reviews</i> , 1-37, doi.org/10.1080/02648725.2022.2131958, Taylor & Francis, Impact factor: 4.200
42	Hidangmayum A., Debnath A., Guru A. Singh B.N., Upadhyay S.K. , Dwivedi P. (2022).Mechanistic and recent updates in nano-bioremediation for developing green technology to alleviate agricultural contaminants. <i>Int. J. Environ. Sci. Technol</i> . https://doi.org/10.1007/s13762-022-04560-7 , Springer, Impact factor: 3.519
41	Hidangmayum A., Dwivedi P., Kumar P., Upadhyay S.K. (2022). Seed Priming and Foliar Application of Chitosan Ameliorate Drought Stress Responses in Mungbean Genotypes Through Modulation of Morpho-physiological Attributes and Increased Antioxidative Defense Mechanism. <i>J Plant Growth Regulator</i> . https://doi.org/10.1007/s00344-022-10792-1 , Springer, Impact factor: 4.640
40	* Upadhyay S.K. and Chauhan P.K.(2022).Optimization of Eco-friendly amendments as sustainable asset for salt-tolerant plant growth-promoting bacteria mediated maize (<i>Zea Mays</i> L.) plant growth, Na uptake reduction and saline soil restoration, <i>Environmental Research</i> , 211, 113081,doi.org/10.1016/j.envres.2022.113081 Elsevier, Impact factor: 8.431
39	Shakeel A., Khan A.A., Upadhyay S.K. (2022). Eco-friendly dual-edged management of fly ash and its antagonistic interplay with <i>Meloidogyne incognita</i> on beetroot (<i>Beta vulgaris</i> L.). <i>Environmental Research</i> , 209, 112767, doi.org/10.1016/j.envres.2022.112767. Elsevier, Impact factor: 8.431
38	Verma, A.K., Hossain M.S., Ahmed S.F., Hussain N., Ashid M., Upadhyay S.K. , Vishakarma N.K., Bhojiya A.A., Srivastava S.K. (2022). <i>In silico</i> identification of ethoxy phthalimide pyrazole derivatives as IL-17A and IL-18 targeted gouty arthritis agents. <i>Journal of Biomolecular Structure and Dynamics</i> , doi.org/10.1080/07391102.2022.2071338, Taylor & Francis, Impact factor: 5.235
37	Chauhan S., Mandliya T., Jain D., Joshi A., Khatik C.L., Singh A., Upadhyay S.K. , Jain R. (2022). Early selective strategies for higher yielding bio-economic Indian ginseng based on genotypic study through metabolic and molecular markers, <i>Saudi Journal of Biological Sciences</i> , 29(4), 3051-3061, doi.org/10.1016/j.sjbs.2022.01.030, Elsevier, Impact factor: 4.052
36	Rajput V.D., Minkina T., Upadhyay S.K. , Kumari A., Ranjan A., Mandzhieva S., Sushkova S., Singh R.K., Verma K.K. (2022). Nanotechnology in the Restoration of Polluted Soil. <i>Nanomaterials</i> , 12(5), 769. Doi.org/10.3390/nano12050769, MDPI, Impact factor 5.719

35	Singh R.K., Singh P., Sharma A., Guo D.J., Upadhyay S.K. , Song Q.Q., Verma K.K., Li D.P., Malviya M.K., Song X.P., Yang L.T., Li Y.R. (2022). Unraveling Nitrogen Fixing Potential of Endophytic Diazotrophs of Different <i>Saccharum</i> Species for Sustainable Sugarcane Growth. <i>Int. J. Mol. Sci.</i> , 23(11), 6242. https://doi.org/10.3390/ijms23116242 , MDPI, Impact factor: 6.208
34	Singh P., Chauhan P.K., Upadhyay S.K. , Singh R.K., Dwivedi P., Wang J., Jain D., Jiang M. (2022) Mechanistic Insights and Potential Use of Siderophores Producing Microbes in Rhizosphere for Mitigation of Stress in Plants Grown in Degraded Land. <i>Front Microbiol.</i> 13, 898979. Doi: 10.3389/fmicb.2022.898979, Frontiers, Impact factor: 6.064
33	Upadhyay S.K. , Srivastava A.K., Rajput V.D., Chauhan P.K., Bhojiya A.A., Jain D., Chaubey G., Dwivedi P., Sharma B., Minkina T. (2022). Root Exudates: Mechanistic Insight of Plant Growth Promoting Rhizobacteria for Sustainable Crop Production. <i>Frontier in Microbiology.</i> 13, 916488. Doi: 10.3389/fmicb.2022.916488. Frontiers, Impact factor: 6.064
32	Verma A.K., Majid A., Hossain M., Ahmed S.K., Ashid M., Bhojia A.A., Upadhyay S.K. , Vishvakarma N.K., Alam M. (2022). Identification of 1,2,4-triazine and its derivatives against lanosterol 14-demethylase (CYP51) property of <i>Candida albicans</i> : 5yridine5 on the development of new antifungal therapeutic strategies. <i>Front Med Technol.</i> 4, 845322, doi.org/10.3389/fmedt.2022.845322 , Frontiers.
31	Rajput V.D., Singh A., Minkina T., Rawat S., Mandzhieva S., Sushkova S., Shuvaeva V., Nazarenko O., Rajput P., Verma K.K., Singh A.K., Rao M., Upadhyay S.K. (2021). Nano-Enabled Products: Challenges and Opportunities for Sustainable Agriculture. <i>Plants</i> 10(12), 2727. doi.org/10.3390/plants10122727 , MDPI, Impact factor: 4.658
30	Upadhyay S.K. and Edrisi S.A. (2021). Developing sustainable measures to restore fly ash contaminated soils: current challenges and future prospects. <i>Land degradation and development</i> , 32(17),4817-4831, doi.org/10.1002/ldr.4090 . Wiley, Impact factor: 4.377
29	Verma A.K., Faisal Ahmed S.K., Hossain S.M., Bhojiya A.A., Upadhyay S. K. , Srivastava A.K., Singh N., Harina, Rahaman M.M., Bahadur N.M. (2021).Unlocking SGK1 inhibitor potential of bis-[1-N,7-N, pyrazolo tetraethoxyphthalimidof-4-(3,5-Dimethyl-4-(spiro-3-methylpyrazolo)-1,7-dihydro-1H-dipyrazolo[3,4-b;4',3'-e]5yridine-8-yl)g]p-disubstituted phenyl compounds: a computational study. <i>Journal of biomolecular structure and dynamics</i> ,40(24), 13412-13431, doi.org/10.1080/07391102.2021.1988711 , Taylor & Francis, Impact factor: 5.235
28	Singh P.P., Srivastava A.K., Upadhyay S.K. , Singh A., Upadhyay S.K. , Kumar P., Rai V., Shrivastava P., Chaubey G.(2021). The association of ABO blood group with the asymptomatic COVID-19 cases in India. <i>Transfusion and Apheresis Science</i> , 60(6), 103224, doi.org/10.1016/j.transci.2021.103224 . Elsevier, Impact factor: 2.596
27	Verma A.K., Ahmed S.F., Hossain M.S., Bhojiya A.A., Mathur A., Upadhyay S.K. Srivastava A.K., Vishvakarma N.K., Barik M. Rahaman M.M., Bahadur N.M. (2021). Molecular Docking and Simulation Studies of Flavonoid compounds against PBP-2a of Methicillin Resistant <i>Staphylococcus aureus</i> . <i>Journal of Biomolecular Structure and Dynamics.</i> 40(21) 10561-10577. Taylor & Francis. https://doi.org/10.1080/07391102.2021.1944911 . Impact factor: 5.235

26	Bhojiya A.K., Joshi H., Upadhyay S.K. , Srivastava A.K., Pathak V.V., Pandey V.C., Jain D. (2021). Screening and Optimization of Zinc Removal Potential in <i>Pseudomonas aeruginosa</i> HMR1 and its Plant Growth Promoting Attributes. Bulletin of Environmental Contamination and Toxicology , 108, 468–477, DOI: 10.1007/s00128-021-03232-5 , Springer, Impact factor: 2.807
25	Mahmud A.A., Upadhyay S.K. , Srivastava A.K., Bhojiya A.A. (2021). Biofertilizers: A Nexus between soil fertility and crop productivity under abiotic stress. Current Research in Environmental Sustainability , 3, 100063, https://doi.org/10.1016/j.crsust.2021.100063 , Elsevier
24	Upadhyay S.K. , Ahmad M., Srivastava A.K., Abhilash P.C., Sharma B. (2021). Optimization of eco-friendly novel amendments for sustainable utilization of Fly ash based on growth performance, hormones, antioxidant, and heavy metal translocation in chickpea (<i>Cicer arietinum</i> L.) plant, Chemosphere 267,129216. DOI: 10.1016/j.chemosphere.2020.129216 . Elsevier, Impact factor: 8.943
23	Paul S., Singh V., Chauhan P.K., Srivastava A.K., Upadhyay S.K. (2020). Assessment of carrot growth performance with inoculation of AsT-PGPR under arsenic infested zone, G- J. Environ. Sci. Technol. 7(6), 78-84, ISSN (Online): 2322-0228 (Print): 2322-021X
22	Paul S., Upadhyay S.K. , Singh N. (2020). Geogenic source of arsenic and their effect on vegetables' seed germination, Tropical Plant Research, 7(1), 110-116, doi.org/10.22271/tpr.2020.v7.i1.015
21	Srivastava A.K., Upadhyay S.K. and Vishwakarma S.K. (2019). Mycodecolorization Activity of <i>Pleurotus Citrinopileatus</i> for Chemically Different Textile Dye Under Varied Aromatic Amino Acids and Trace Elements, G- Journal of Environmental Science and Technology 6(4), 14-17
20	Upadhyay S.K. and Chauhan P.K. (2019). Study of land use and land cover of Ravine area using geospatial satellite data. Journal of Environmental science and pollution research , 5(4), 383-386, doi.org/10.30799/jespr.181.19050401 .
19	Upadhyay S.K. , Saxena A.K., Singh J.S., Singh D.P. (2019). Impact of Native ST-PGPR (<i>Bacillus pumilus</i> ; EU927414) on PGP Traits, Antioxidants Activities, Wheat Plant Growth and Yield under Salinity. Climate Change and Environmental Sustainability 7(2), 157-168, doi.org/10.5958/2320-642X.2019.00021.8
18	Tripathi M., Upadhyay S.K. , Kaur M., Kaur K. (2018). Toxicity Concerns of Hexavalent Chromium from Tannery Waste. Journal of Biotechnology and Bioengineering . 2(2), 40-44.
17	Singh R., Singh J., Deval R., Upadhyay S.K. , and Kumar D. (2017). The Potentiality of Selected Strain of PGPR: <i>Azotobacter</i> , for Sustainable Agriculture in India. G- Journal of Environmental Science and Technology. 4(6), 49-53, ISSN: 2322-0228.
16	Upadhyay S.K. , Singh G., Srivastava A.K., and Singh D.P. (2017). Bio-medical waste (BMW) generation and their effects on adjacent environment. International Research Journal of Environmental Sciences. ISSN 2319–1414. 6 (7), 1-8.
15	Singh G., Upadhyay S.K. and Singh M.P. (2015). Dye-decolorization by native bacterial isolates, isolated from sludge of carpet industries Bhadohi- India. G- Journal of Environmental Science and Technology 2(6), 81-85, ISSN (Online): 2322-0228 (Print): 2322-021X.
14	Upadhyay S.K. and Singh D.P. (2015). Effect of salt-tolerant plant growth-promoting rhizobacteria on wheat plants and soil health in a saline environment. Plant Biology . 17(1), 288-293. ISSN 1435-8603, Wiley, Impact factor: 3.877
13	Mishra S., Upadhyay S.K. , Singh T.B. (2014). Heavy metal recovery by native

	macrophytes from Subarnarekha river- India. International journal of Environmental sciences 5(3), 634-643. ISSN 0976 – 4402. Doi:10.6088/ijes.2014050100057
12	Paul P., Upadhyay S.K. , Lal E.P. (2014). Accumulation of Arsenic in Radish (<i>Raphanussativus</i> l.), and their effects on growth and antioxidant activities. International J. of Pharmaceutical Sci. Res, 5(8), 3536-3543. DOI:10.13040/IJPSR.0975-8232
11	Paul P., Upadhyay S.K. and Lal E.P. (2014). Free radical scavenging activities, growth and metal uptake in Carrot (<i>Daucuscarotal.</i>) plant under higher concentration of Arsenic. Indian J. L. Sci. 3(2), 47-57. ISSN: 2277-1743.
10	Maurya S.K. and Upadhyay S.K. (2014). Mobile Tower Exposure affects on memory and Motor Co-ordination on Mice. G- Journal of Env. Sci. Technol. 1(5), 103-107. ISSN (Online): 2322-0228 (Print): 2322-021X.
9	Dwivedi G.K., Upadhyay S.K. , Mishra A.K. and Singh A.K. (2014). Hyperaccumulation of cadmium in <i>Solanum nigrum</i> L. and their effects on phytochemicals and antioxidant enzymatic activities. International J. of Pharmaceutical Sci. Res. 5(4), 1424-1430. doi.org/10.13040/IJPSR.0975-8232
8	Gangwar R.K., Bhushan G., Singh J., Upadhyay S.K. and Singh A.P. (2013). Combined effects of plant growth promoting rhizobacteria and fungi on mung bean (<i>vignaradiatal.</i>) International J. of Pharmaceutical Sci. Res. 4(11), 4422-4426. doi.org/10.13040/IJPSR.0975-8232
7	Dwivedi G.K., Upadhyay S.K. , Mishra A.K. and Singh A.K. (2013). Hyper accumulation of Cadmium in <i>Phyllanthus amarus</i> L. –A Medicinal Plant. Indian J. of Life Sci. 3(1), 21-26. ISSN: 2277-1743.
6	Upadhyay S.K. , Ahmad M., Singh A. (2013). Ecological impacts of weed (<i>Parthenium hysterophorus</i> L.) invasion in saline soil. IJSRP, 3, 1-4. ISSN 2250-3153.
5	Dwivedi G.K., Upadhyay S.K. , Mishra A.K., Singh A.K. (2013). Effect of Heavy Metals on Phenolic Content and Free Radical Scavenging Activity of <i>OcimumTenuiflorum</i> L. Int. Journal of Scientific research, 2(3), 14-16. ISSN No 2277 – 8179. doi.org/10.36106/ijsr, Impact factor: 5.711
4	Upadhyay S.K. , Singh J.S., Saxena A.K. Singh D.P. (2012). Impact of PGPR inoculation on growth and antioxidant status of wheat under saline conditions. Plant Biology, 14(4), 605-611. doi.org/10.1111/j.1438-8677.2011.00533.x, Wiley, Impact factor: 3.877
3	Upadhyay S.K. , Maurya S.K. and Singh D.P. (2012). Salinity tolerance in free living plant growth promoting rhizobacteria. Indian J. Sci. Res. 3(2): 73-78, ISSN: 2277-1743
2	Upadhyay S.K. , Singh J.S, Singh D. P. (2011). Exoploysaccharide-Producing Plant Growth-Promoting Rhizobacteria Under Salinity Condition. Pedosphere , 21(2), 214-222. doi.org/10.1016/S1002-0160(11)60120-3. Elsevier, Impact factor: 5.514
1	Upadhyay S.K. , Singh D.P., Saikia R. (2009). Genetic Diversity of Plant Growth Promoting Rhizobacteria Isolated from Rhizospheric Soil of Wheat under Saline Condition. Current Microbiology- 59(5), 489–496. doi.org/10.1007/s00284-009-9464-1. Springer, Impact factor: 2.343

Running project: Working as a PI in Minor project entitled “Biomedical waste management....
(Project number-133/Pu.Vi.Vi./IQAC/2022-13)

Published book:

- *Nano-Biofortification for Human and Environmental Health* (2023) by Vishnu D. Rajput (Editor), Hassan El-Ramady (Editor), **Sudhir K. Upadhyay** (Editor), Tatiana Minkina (Editor), BILAL AHMED (Editor), Saglara Mandzhieva (Editor), **Springer**.
- *Environmental communication “Lab to Land” (2021)* by Manoj Mishra and **Sudhir K. Upadhyay**. ISBN: 978-81-948189-5-3, Shree Publisher & Distributors, New Delhi.

Book Chapters:

S.No	Chapter details
7	Vishnu D. Rajput, Tatiana Minkina, Anuj Ranjan, Abhishek Joshi, Arpna Kumari, Prabhat K. Chauhan, Sudhir K. Upadhyay , Svetlana Sushkova, Saglara Mandzhieva, Jaya Arora, (2023). Unraveling the role of nanoparticles and rhizosphere microbiome for crop production under stress condition, Editor(s): Nar Singh Chauhan, Sarvajeet Singh Gill, In Nanomaterial-Plant Interactions, The Impact of Nanoparticles on Agriculture and Soil, Academic Press, 161-181, ISBN 9780323917032, https://doi.org/10.1016/B978-0-323-91703-2.00019-1 .
6	Jain R., Bohra N., Singh R.K., Upadhyay S.K. , SrivastavaA.K., Rajput V.D. (2022). Nanomaterials for Plants: From Ecophysiology to Signaling Mechanisms and Nutrient Uptake. The Role of Nanoparticles in Plant Nutrition under Soil Pollution. Sustainable Plant Nutrition in a Changing World. 183–197, doi.org/10.1007/978-3-030-97389-6_8 , Springer.
5	Rajput V.D., Faizan M., Upadhyay S.K. , Kumari A., Ranjan A., Sushkova S., Chauhan P.K., Mahmud A.A., Burachevskaya M., Chaplygin V., Deryabkina I. (2022). Influence of Nanoparticles on the Plant Rhizosphere Microbiome. The Role of Nanoparticles in Plant Nutrition under Soil Pollution. Sustainable Plant Nutrition in a Changing World. 83–102, doi.org/10.1007/978-3-030-97389-6_4 , Springer.
4	Sunderam Shukla, Astha Maurya, Satakshi Shahi, Sudhir K Upadhyay (2021). Biomedical Wastes and Its Management: An approach of Scientific Communication, ISBN: 978-81-948189-5-3, Shree Publisher & Distributors, New Delhi.
3	Satyendra Tripathi and S K Upadhyay (2021). Understanding of Scientific Communication in Global Climate Change, ISBN: 978-81-948189-5-3, Shree Publisher & Distributors, New Delhi.
2	S.K. Upadhyay (2021). Fundamental of Environment, ISBN: 978-81-948189-5-3, Shree Publisher & Distributors, New Delhi.
1	S.K. Upadhyay , G. Singh and D.P. Singh (2016). Mechanism and understanding of PGPR: an approach for sustainable agriculture under a biotic stresses, ISBN-978-93-80012-83-4 Stadum Publisher.

Currently working as editor in journals	<ul style="list-style-type: none"> ➤ Current microbiology-Springer ➤ Restoration ecology- Wiley
Guest editor	<ul style="list-style-type: none"> ➤ Frontier in Microbiology ➤ Agronomy-MPDI

	<ul style="list-style-type: none"> ➤ Environmental Research-Elsevier ➤ Journal of Environmental Management-Elsevier
Reviewers in journals	<ul style="list-style-type: none"> ➤ Environmental Research- Elsevier ➤ Molecular biotechnology- Springer ➤ Plant physiology and biochemistry- Elsevier ➤ Environmental Science pollution research- Springer ➤ Land degradation and development- Wiley ➤ Journal of plant Biology- Springer ➤ Pedosphere- Elsevier ➤ Plant and Soil- Elsevier ➤ Journal of plant Nutrition & Soil Science- Wiley ➤ Chemosphere- Elsevier ➤ Current microbiology- Springer ➤ Restoration ecology- Wiley ➤ Agronomy-MPDI ➤ Frontier in microbiology ➤ Journal of plant growth regulator- Springer ➤ Microbiological Research- Elsevier
Membership of Professional bodies	<ul style="list-style-type: none"> ➤ International Society for Development and Sustainability (ISDS), Japan ➤ Life member of Grace and piece welfare society. ➤ Academy of Environmental Biology. (638). ➤ National Bureau of Agriculturally important microorganism. ➤ Uttar Pradesh Association for Science and Technology Advancement.
Research work done during carrier	<ul style="list-style-type: none"> ➤ ICAR project “Diversity of Lactic Acid Bacteria from Fermented Milk and Milk Products in Southern Rajasthan, India, at Collage of Food and Dairy science Technology, Maharana Pratap University of Agricultural and Technology, Udaipur-Rajasthan-India since 31st March 2009- to- 13th Sept 2010. ➤ D.B.T. sponsored Project “Development of Sustainable Management Strategies for control of <i>Parthenium</i> Weed in U.P. using Biotechnological approach from 1st August 2005 to March 2008 at National Bureau of Agriculturally Important Microorganisms, (ICAR) Mau U.P. ➤ Worked on a project entitle “Biotechnological methods for controlling of industrial flue gaseous emission containing oxides of SO_x and NO_x” under the guidance of Dr. R. A. Pandey, Director, Department of Environmental biotechnology, National Environmental Engineering Institute (NEERI) Nagpur, Maharashtra, INDIA in 2004.

<p>Administrative and University level Responsibilities</p>	<ul style="list-style-type: none"> ➤ Member of data processing team for annual examination of the V.B.S. Purvanchal University. ➤ Member as B.Ed. counseling ➤ Member as PU Combined Admission Test ➤ Member as an editor in editorial team of different conferences/workshops of V.B.S. Purvanchal University. ➤ Member as several cultural program of the V.B.S. Purvanchal University at various occasion. ➤ Worked as Assistant Coordinator at central evaluation centre ➤ Examiner in Practical examination of P.G. Level of different University. ➤ Paper setter and evaluator of P.G. Level. ➤ Invigilation duties during exam in V.B.S. Purvanchal University. ➤ Several invited talks in other department of V.B.S. Purvanchal University.
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INVITED TALK & PAPER PRESENTATION.

- First prize in paper (PGPR-A bio-asset for sustainable agriculture under saline soil) presentation in the Global Symposium on Salt-affected Soils-GSAS21 held virtually from 20 to 22 October 2021 organized by Food and Agriculture Organization of the United Nation and Govt. of the republic of Uzbekistan.
- Paper presented on “Role of science communication in application of earthworm on agricultural soil restoration”, International conference on Ultrasonic and dated 16 to 18 November 2019 at VBS Purvanchal University, Jaunpur.
- Invited talk as Resource person in 7 days workshop on Research methodology, Raja Harpal Singh Degree College, Jaunpur, 2018.
- Invited talk on Wild Life management, in Raja Harpal Singh Degree College, Jaunpur, 2018.
- Invited lecture on ABC hot spot in workshop on Genomics and Biotechnology, Mohammad Hashan PG degree college, Jaunpur, 2017
- Invited lecture on ST-PGPR proteomics in International conference in Invertis University, Bareilly, 2017.
- Invited lecture on Genetic Diversity of salt tolerant plant growth promoting rhizobacteria in 3rd International Conference on New frontiers in biotechnology Science, Health and Medicine, “Gene Pro 2016” Invertis University, Bareilly, 2017.
- Invited talk on Microbes under saline water in International conference in B.B.A. University, Lucknow, 2017.
- Several invited lectures of various topics of Environmental Science (Like: Global warming, Ozone hole, Ecology, Water Pollution, Heavy-metal contamination, Biodiversity conservation, Climate change etc) at different colleges and different departments of parent University. (2012-2017)
- Invited talk on Role of stress induced Bio-molecules in Plant – Microbes interaction International Seminar on New Frontiers in Biotechnology, Functional Genomics and Proteomics sponsored by DST, ICMR, Invertis University Bareilly. Sept 27-28, 2014.
- National seminar on monitoring of Water quality contaminated by pesticides and associated health impact. 24th to 26 feb. 2012. Sponsored by UGC, Dept of Chemistry, RSKD PG College, Jaunpur-U.P.

- National conference on Frontiers in Biological Sciences 4-5th dec. 2011: sponsored by UGC.VBS Purvanchal University, Jaunpur-U.P.
- National Seminar on “Value addition of Agricultural Produces and Current status of small scale food processing Units. Jointly organized by IICPT (Ministry of Food Processing Industries Govt. Of India) and Maharana Pratap University of Agriculture and Technology, Udaipur- Rajasthan 18-19 Feb-2010.
- UGC sponsored National Seminar on Food Safety Management in Dairy and Agro based food products,,Gandhigram- Tamilnadu, January 2010.
- 47th Annual Conference of Association of Microbiologist of India (AMI), Barkatullah University, Bhopal, 2006.
- National Seminar on Integrated Crop and Environment Management: Trends and Perspectives in Developing areas, Organized by FIST-DST Department of Botany & Biotechnology, Ballia ,U.P. INDIA,2005.

ABSTRACTS/ POPULAR ARTICLES

- **Sudhir K Upadhyay** and Garima Singh (2015). Effect of Fly ash on seed germination on lady's finger and maize. National conference on status of Land Resources; Challenges & Solutions with special references to UP. Sponsored by State Land Use Board, UP planning department Govt. of India, Department of Environmental Science, Bareilly College, 16th Sept 2015.
- Garima Singh and **Sudhir K Upadhyay** (2015). Decolorizing activities of native fungal isolates for azo dye: Congo red (CR) and Trypan Blue (TB). P46-289. National conference on Biotechnology and Human Well Fare: New Vistas, Department of Biotechnology, VBS Purvanchal University, Jaunpur-India.
- **Sudhir K. Upadhyay** and Anshu Singh (2014). Effect of Fly-ash on germination of gram. International Conference on Environmental Technology and sustainable development: Challenges& Remedies. Organized by Department of Environmental Science, Babasaheb Bhimrao Ambedkar University (A central University) Lucknow (India), 21 to 23rd feb 2014.
- **Sudhir K. Upadhyay (2013)**. Symposium on “Building an Ecologically Sustainable Society” Organized by Babasaheb Bhimrao Ambedkar University (A central University) Lucknow (India) and IASS-Allahabad (India), 16th aug 2013.
- S. Rai, S. Pal, M. Ahmed and **S. K. Upadhyay** (2012). Status of weed population in Natural ecosystem. National seminar on monitoring of Water quality contaminated by pesticides and associated health impact. **Pp** 30,24th to 26 feb. 2012. Sponsored by UGC, Dept of Chemistry, RSKD PG College, Jaunpur-U.P.
- **Sudhir K. Upadhyay** and Devendra P. Singh (2011). Metagenomic approach: Estimate the microbial diversity, National conference on Frontiers in Biological Sciences **Pp** 10. 4-5thdec. 2011: sponsored by UGC.
- **Sudhir K Upadhyay** (2011). Weed management is essential for engineered ecosystem. National conference on Frontiers in Biological Sciences **Pp** 51 26.4-5thdec. 2011: sponsored by UGC.
- **Sudhir K Upadhyay**, Ashwini Mishra, Kartikey Shukla, M.P. Singh (2011). Effect of Native bacteria on Dye decolorization National conference on Frontiers in Biological Sciences **Pp** 26.4-5thdec. 2011: sponsored by UGC.
- **Sudhir K. Upadhyay, Karuna Singh et al.** (2011).Status of biomedical waste generation at Jaunpur city:A case study. National conference on Frontiers in Biological Sciences **Pp** 19.4-5thdec. 2011: sponsored by UGC.
- **Sudhir K Upadhyay**,Kartikey Shukla, Vivek K Pandey, D. P. Singh. (2011) PGPRs act as Ecofriendly agent for agriculture. National conference of Environmental Problems in India and challenges to Plant Biologist 4-5thfeb. 2011.

- Kartikey shukla, A Chaturvedi, S. Mishra, **S. K. Upadhyay** et al (2011).Plastic Waste- A menace to the Environmental Health. National conference on Frontiers in Biological Sciences Pp 20 .4-5thdec. 2011: sponsored by UGC.
- Vivek K pandey, S. Srivastava, Shikha Singh. P Singh, **S.K. Upadhyay** (2011). Electronic Wastes: Alarming Pollution Status at Jaunpur (UP) India. National conference on Frontiers in Biological Sciences **Pp 21** .4-5thdec. 2011: sponsored by UGC.
- Srinivasan R, **Sudhir K Upadhyay**, Ali AsgerBhojiya, P. Subramanian (2010). Microbiological examination of raw milk Samples collected from various Dairy Units located in Udaipur Region. National Seminar on “Value addition of Agricultural Produces and Current status of small scale food processing Units. Pp.25-26, 18-19 February. Jointly organized by IICPT (Ministry of Food Processing Industries Govt. Of India) and Maharana Pratap University of Agriculture and Technology, Udaipur-Rajasthan.
- Srinivasan R., **Sudhir K. Upadhyay**, Ali Asger, P. Subramanian (2010).Studies of Bacteriocin Producing Lactic Acid Bacteria from Southern Rajasthan, pp34,UGC Sponsored National Seminar on Food Safety Management in Dairy and Agro based food products,p.34,22-23 January, Gandhigram-Tamilnadu.
- **Sudhir K. Upadhyay**, Shweta Tiwari, Bharat mishra, Brijendra Kashyap, A.K.Saxena, D.K. Arora (2006).”Microbes can improve crop productivity under salt stress” In: 47th Annual Conference of Association of Microbiologist of India (**AMI**), Barkatullah University, Bhopal, pp 162.
- **Sudhir K.Upadhyay**, R. A. Pandey (2005). “Biotechnological methods for controlling of industrial flue gaseous emission containing oxides of SO_x and NO_x”. In National Seminar on Integrated Crop and Environment Management: Trends and Perspectives in Developing areas, Organized by FIST-DST Department of Botany & Biotechnology, Ballia ,U.P. INDIA, pp 162.

ORIENTATION/ TRAININGS

- Refresher course on “Interdisciplinary Refresher Course in Global Warming and Sustainable Development” from UGC – Human Resource Development Center University of Allahabad (November 01, 2022 to November 14, 2022)
- Two days workshop on IPR and Plagiarism in VBSPU 2018.
- Attend seven days workshop on Techniques in molecular biology Mohamad Hashan PG Degree College 2017.
- Attend Orientation programme from UGC-Human Resources development Centre, D.D.U. Gorakhpur University, Gorakhpur U.P. 23rd may 2015-19th June 2015.
- Faculty development programm organised by DST-NIMAT from 27th June 2013 to 10th july 2013.
- National tanning on “Mushroom Cultivation” at NBAIM (ICAR), Mau-U.P. October 29-30 (2007).
- National Training on “Microbial diversity Analysis of Agriculturally important microorganisms” at NBAIM (ICAR) Mau-U.P.3rd to 25th January (2006).
- National tanning on “Mushroom Cultivation” at NBAIM (ICAR),Mau-U.P. July 22-24 (2006)

Date :20/05/2023

Place : Jaunpur, U.P., India

(Dr. Sudhir K. Upadhyay)