BIODATA

Name : **Prof. Piyush Pandey**

Designation : Professor

Department : Department of Microbiology
University : Assam University, Silchar, Assam
Address : Department of Microbiology, Assam

University, Silchar, Assam – 788011, India

E-mail : piyushddn@gmail.com

Brief Profile

Prof Piyush Pandey is working at the department of Microbiology, Assam University, India. He has twenty-three years of academic and research experience. His research group works on plant associated bacteria, with their potential applications in agriculture and environment. He has published more than 150 papers in journals of high impact, three books, and undertaken sixteen research grants. He has been awarded with 'DBT-Centre for Excellence award' for working on plant-rhizosphere mediated bioremediation of polyaromatic hydrocarbons. Also, he has been 'Overseas Associate' to Agroscope, Switzerland, SICI-SMP fellow to York University, Canada, and had visited Shizuoka University, Japan. Prof. Pandey is Fellow of International Society of Environmental Botanists, member of several scientific societies and has editorial role in reputed Journals. He has been extensively working on soil and plant microbiomes, rhizoremediation of environmental pollutants, and environmental genomics. He has been awarded from Springer, Society for Environmental Sustainability, and Asian PGPR Society for his research contributions. He has two Indian patents granted.

Research Publications (selected)

Citation details:

https://scholar.google.co.in/citations?hl=en&user=2lb7LO8AAAAJ

 $\underline{https://www.researchgate.net/profile/Piyush_Pandey20}$

https://orcid.org/my-orcid?orcid=0000-0003-3175-0122

SR. NO	TITLE OF PAPER	AUTHORS	REFERENCE OF JOURNAL	YEAR
1.	Energy crop-based rhizoremediation and lignocellulosic biomass production as sustainable bioeconomy-driven solution for biofuel generation and waste mitigation,	Das, N., Maheshwari, D. K., Pandey, P	Progress in Energy and Combustion Science, 103, 101161,https://doi.org/ 10.1016/j.pecs.2024.10 1161.	2024
			IF 29.5	
2.	Identification of molecular interactions of pesticides with keratinase for their potential to inhibit keratin biodegradation.	Gahatraj, I., Roy, R., Sharma, A., Phukan, B.C., Kumar, S., Kumar, D., Pandey, P., Bhattacharya, P., Borah A.	In Silico Pharmacol. 12, 54	2024
3.	Inhibitory effects of silver silicate (AgSiO2) nanoparticles on uncultivable bacterial phyla present in soil.	Singha, K.M., Singha, L.P., Acharya, D., Pandey, P.	Environmental Sustainability https://doi.org/10.1007/ s42398-024-00314-y	2024



4.	Emergence of Lasiodiplodia theobromae induced leaf necrosis in tea (Camellia sinensis [L.] O.	Ghosh, K., Das, S., Sorongpong, S., Das, N.,	Arch Microbiol 206, 284	2024
	Kuntze) from India.	Pandey, P	IF 2.8	
5.	Biofortification as a solution for addressing nutrient deficiencies and malnutrition	Bindu Naik,Vijay Kumar,Sheikh Rizwanuddin, Sadhna Mishra, Vivek Kumar, Per Erik Joakim Saris, Naresh Khanduri, Akhilesh Kumar, Piyush Pandey, Arun Kumar Gupta, Javed Masood Khan, Sarvesh Rustagi	Heliyon IF: 4.0	2024
6.	Exploring the bioremediation potential of Bacillus spp. for sustainable mitigation of hydrocarbon contaminants	Ankita Das, Nandita Das, Jina Rajkumari, Prisha Pandey & Piyush Pandey	Environmental Sustainability	2024
7.	Functionally coherent transcriptional responses of <i>Jatropha curcas</i> and <i>Pseudomonas fragi</i> for rhizosphere mediated degradation of pyrene.	Singha, L.P., Singha, K.M. & Pandey, P.	Scientific Reports 14, 1014 IF: 4.6	2024
8.	Isolation, identification, and molecular characterization of potential keratinolytic fungus sp. from Southern Assam: relevance to poultry wastes and its biological management.	Gahatraj, I., Roy, R., Phukan, B.C., Diwakar Kumar, Piyush Pandey, Sanjeev Kumar, Anupom Borah	Arch Microbiol 206, 99 IF: 2.8	2024
9.	Biodegradation of asphaltene by lipopeptide- biosurfactant producing hydrocarbonoclastic, crude oil degrading <i>Bacillus</i> spp.	S Das, N Das, K Choure, P Pandey	Bioresource Technology 382, August 2023, 129198 IF: 11.889	2023
10.	Prompt antibacterial activity of silver nanoparticle decorated on HAp embedded NiFe2O4 nanocomposite (NiFe2O4@HAp-Ag) against pathogenic strains and investigation of its photocatalytic activity towards degradation of antibiotics	J. Kalita, A. Das, L. Bharali, D. Chakraborty, S.S. Dhar, P. Pandey	Materials Today Sustainability, 24, 100552, IF: 7.8	2023
11.	Revolutionizing Tuberculosis Treatment: Uncovering New Drugs and Breakthrough Inhibitors to Combat Drug-Resistant Mycobacterium tuberculosis	Ankit Verma, Bindu Naik, Vijay Kumar, Sadhna Mishra, Megha Choudhary, Javed Masood Khan, Arun Kumar Gupta, Piyush Pandey, Sarvesh Rustagi, Barnali Kakati, and Sanjay Gupta	ACS Infect. Dis., 9, 12, 2369–2385 IF: 5.3	2023
12.	Marine alga-mediated facile green synthesis, antibacterial and enhanced catalytic activity of highly stable superparamagnetic NiO nanostructure,	Debasish Borah, Puja Saikia, Debika Gogoi, Ankita Das, Jayashree Rout, Narendra Nath Ghosh, Piyush Pandey, Manash Das Gupta, Chira R. Bhattacharjee	Inorganic Chemistry Communications, 156, 111182 IF: 3.8	2023
13.	Facile green synthesis of highly stable, water dispersible carbohydrate conjugated Ag, Au and Ag-Au biocompatible nanoparticles: Catalytic and antimicrobial activity,	Debasish Borah, Vishal Mishra, Rupam Debnath, Kheyali Ghosh, Debika Gogoi, Jayashree Rout, Piyush Pandey, Narendra Nath Ghosh, Chira Ranjan Bhattacharjee	Materials Today Communications, 37, 107096 IF: 3.8	2023
14.	determinants in their genomes induce growth and antioxidant activity related gene functions in	K. Malabika Singha, Piyush Pandey	Environmental and Experimental Botany, 213, 105396	2023
	transcriptome of black rice (Oryza sativa L.),		IF: 6.028	

	Production from Waste Material	Birson Ingti, Vladimir Panchenko, Vadim Bolshev, Andrey Kovalev and Piyush Pandey	IF: 3.6	
16.	Impacts of rhizoremediation and biostimulation on soil microbial community, for enhanced degradation of petroleum hydrocarbons in crude oil contaminated agricultural soils	Bhrigu Bhuyan, Piyush Pandey	Environmental Science and Pollution Research, 30, 94649–94668 IF: 5.8	2023
17.	If you're not confused, you're not paying attention: <i>Ochrobactrum</i> is not <i>Brucella</i> "	Moreno et al.	Journal of Clinical Microbiology, 61: e00438-23	2023
18.	Facile green synthesis of novel hierarchical Ag doped MnO2 (Ag@MnO2) nanoparticle embedded rGO nanohybrid: photophysical, catalytic and antibacterial activity	Puja Saikia, Debasish Borah, Rupam Debnath, Debika Gogoi, Ankita Das, Jayashree Rout, Narendra Nath Ghosh,	F: 11.677 Surfaces and Interfaces 40, 103015	2023
19.	Comparative assessment of soil microbial community in crude oil contaminated sites	Piyush Pandey G Yerulker, P Patel, A Chafale, V Rathod, S Das, P Pandey, NA Khan, A Devi, NS Munshi, R Dhodapkar, A Kapley,	IF: 6.137 Environmental Pollution 328 (2023) 121578 IF: 9.988	2023
20.	Treatment with atypical rhizobia, <i>Pararhizobium</i> giardinii and <i>Ochrobactrum</i> sp. modulate the rhizospheric bacterial community, and enhances <i>Lens culinaris</i> growth in fallow-soil	S Debnath, A Das, DK Maheshwari, P Pandey	Microbiological Research 267 (2023) 127255 IF: 5.07	2023
21.	Petroleum Hydrocarbon Catabolic Pathways as Targets for Metabolic Engineering Strategies for Enhanced Bioremediation of Crude-Oil- Contaminated Environments	N Das, A Das, S Das, V Bhatawadekar, P Pandey, K Choure, S Damare, P Pandey	Fermentation 2023, 9, 196. IF: 5.123	2023
22.	A facile green synthesis route to silver nanoparticles using cyanobacterium Nostoc carneum and its photocatalytic, antibacterial and anticoagulative activity	Borah, D., Das, N., Sarmah, P., Ghosh, K., Chandel, M., Rout, J., Pandey, P., Ghosh, N. N., Bhattacharjee, C. R.	Materials Today Communications 34, 105110 IF: 3.662	2023
23.	Photocatalytic and Antibacterial Activity of Fluorescent CdS Quantum Dots Synthesized Using Aqueous Extract of Cyanobacterium Nostoc carneum.	Borah, D., Saikia, P., Sarmah,	BioNanoSci. 13, 650– 666	2023
24.	Current Progress and Biotechnological Applications of Microbial Keratinases	Indira Gahatraj, Anupom Borah, Piyush Pandey, Arindam Bhattacharya, Suman Mazumdar, Bijender Singh, Sanjeev Kumar	Journal of Pure & Applied Microbiology 17, 732-748	2023
25.	The changing paradigm of rhizobial taxonomy and its systematic growth upto postgenomic technologies	J Rajkumari, P Katiyar, S Dheeman, P Pandey, DK Maheshwari	World Journal of Microbiology and Biotechnology 38 (11), 1-23 IF:4.253	2022
26.	Correlation of soil microbiome with crude oil contamination drives detection of hydrocarbon degrading genes which are independent to quantity and type of contaminants	N Das, B Bhuyan, P Pandey	Environmental Research, 114185 IF: 8.431	2022
27.	Tetracoordinated ONNO donor purine based Schiff base and its metal complexes: Synthesis, characterization, DNA binding, theoretical studies, and bioactivities	A Singh, HP Gogoi, P Barman, A Das, P Pandey	Applied Organometallic Chemistry, e6852 IF:4.072	2022

28.	Remediation of petroleum hydrocarbon contaminated soil using hydrocarbonoclastic rhizobacteria, applied through <i>Azadirachta indica</i> rhizosphere,	B Bhuyan and P Pandey	International Journal of Phytoremediation, DOI: 10.1080/15226514.202 2.2033689 IF: 3.212	2022
29.	their zinc-complexes as anti-HIV-1 and antibacterial agents under non-photodynamic therapy (PDT) conditions	D Sengupta, M Rai, ZH Mazumdar, D Sharma, K. M Singha, P Pandey, R Gaur	Bioorganic & Medicinal Chemistry Letters,65,128699, IF: 2.823	2022
30.	The structure-function relationship of bacterial transcriptional regulators as a target for enhanced biodegradation of aromatic hydrocarbons	R Kotoky, N Ogawa, P Pandey	Microbiological Research, 127087 IF: 5.07	2022
31.	COVID-19 pandemic: aggressive research, vaccination, testing, and environmental sustainability are the way forward	NK Arora, P Pandey, D Egamberdieva, T Fatima	Environmental Sustainability 4 (3), 443-445	2021
32.	A comparative study on the antibacterial activity of different shaped silver nanoparticles	D Acharya, P Pandey, B Mohanta	Chemical Papers 75 (9), 4907-4915 IF:2.146	2021
33.	Interplay of weather variables in triggering the transmission of SARS-CoV-2 infection in Asia	A Dalal, P Pandey	Environmental Sustainability 4 (3), 551-558	2021
34.	Transmission of SARS-CoV-2 in South Asian countries: molecular evolutionary model based phylogenetic and mutation analysis	AP Maurya, RV Chikhale, P Pandey	Environmental Sustainability 4 (3), 533-541	2021
35.	Rhizosphere assisted bioengineering approaches for the mitigation of petroleum hydrocarbons contamination in soil			2021
36.	Paradigm shift in Antibiotic-Resistome of petroleum hydrocarbon contaminated soil.	N Das, R Kotoky, A Maurya, B Bhuyan, P Pandey	Science of the Total Environment757:14377 7, IF: 10.753	2021
37.	The genomic attributes of Cd-resistant, hydrocarbonoclastic Bacillus subtilis SR1 for rhizodegradation of benzo(a)pyrene under co-contaminated conditions.	R Kotoky and P Pandey	Genomics IF: 4.31	2021
38.	Host specific endophytic microbiome diversity and associated functions in three varieties of scented black rice are dependent on growth stage.		Scientific Reports IF: 4. 6	2021
39.	Rhizodegradation of Pyrene by a Non-pathogenic Klebsiella pneumoniae Isolate Applied with Tagetes erecta L. and Changes in the Rhizobacterial Community	J Rajkumari, Y Choudhury, K Bhattacharjee, P Pandey	Frontiers in Microbiology IF: 6.064	2021
40.	Enrichment of antibiotic resistance genes (ARGs) in polyaromatic hydrocarbon–contaminated soils: a major challenge for environmental health.	Maurya, A.P., Rajkumari, J. & Pandey, P.	Environ Sci Pollut Res (2021). 28(10):12178-12189. IF: 5.8	2021
41.	Green synthesis of Silver and Silver-gold core-shell nanoparticles using Pineapple leaf extract (Ananas comosus) and study of their antibacterial properties	D Acharya, B Mohanta, P Pandey	International Journal of Nano Dimension IF: 0.319	2021
42.	A comparative study on the antibacterial activity of different shaped silver nanoparticles	D Acharya, P Pandey, B Mohanta	Chemical Papers IF: 2.146	2021
43.	Interplay of weather variables in triggering the transmission of SARS-CoV-2 infection in Asia	A Dalal, P Pandey	Environmental Sustainability	2021
44.	The Endophytic Microbiome as a Hotspot of Synergistic Interactions, with Prospects of Plant Growth Promotion	UK Vandana, J Rajkumari, LP Singha, L Satish, H Alavilli, Pamidimarri DVN Sudheer, S Chauhan, R Ratnala, V Satturu, PB Mazumder, P Pandey	MDPI Biology IF: 5.168	2021

45.	Expressional Pattern of psm-mec System in Methicillin-Resistant Staphylococcus aureus Under	D Bhowmik, S Chetri, P Pandey, BJ Das, J	Current Microbiology IF: 2.343	2021
	Oxacillin Stress	Wangkheimayum, NA Choudhury, K Melson Singha, D Dhar Chanda, A Bhattacharjee		
46.	Biodegradation of High Molecular Weight Polyaromatic Hydrocarbons in Different Environments	P Pandey, A Kapley, SK Brar	Frontiers in Microbiology IF: 6.064	2021
47.	Comparative Metagenomic Analysis of Two Alkaline Hot Springs of Madhya Pradesh, India and Deciphering the Extremophiles for Industrial Enzymes	K Choure, S Parsai, R Kotoky, A Srivastava, A Tilwari, PK Rai, A Sharma, P Pandey	Frontiers in Genetics IF: 4.772	2021
48.	Development, spread and persistence of antibiotic resistance genes (ARGs) in the soil microbiomes through co-selection	AP Maurya, J Rajkumari, A Bhattacharjee and P Pandey	Reviews on Environmental Health IF: 3.62	2020
49.	Difference in the rhizosphere microbiome of Melia azedarach during removal of benzo(a)pyrene from cadmium co-contaminated soil.	Kotoky R., Pandey, P.,	Chemosphere, 258: 127175 IF: 8.943	2020
50.	Rhizobacterial community of Jatropha curcas associated with pyrene biodegradation by consortium of PAH-degrading bacteria	L. Singha, P., Pandey, P.,	Applied Soil Ecology 155: 103685 IF: 5.509	2020
51.	Rhizosphere assisted biodegradation of benzo(a)pyrene by cadmium resistant plant probiotic Serratia marcescens S2I7, and its genomic traits.	Kotoky R, Pandey P.	Scientific Reports. 10:5279. IF: 4. 6	2020
52.	Hyperaccumulation of Arsenic by <i>Pteris vittata</i> , a potential strategy for phytoremediation of Arsenic - contaminated soil.	Vandana, U. K., Gulzar, A. B. M., Singha, P., Mazumder, P. B. M., Pandey, P.	Environmental Sustainability 3: 169– 178	2020
53.	Alga-mediated facile green synthesis of silver nanoparticles: Photophysical, catalytic and antibacterial activity.	D Borah, N Das, N Das, A Bhattacharjee, P Sarmah, Ghosh K, Chandel M, Rout J, Pandey P, Ghosh NN, Bhattacharjee CR.	Applied Organometallic Chemistry 34 IF: 4.072	2020
54.	Distinctive features gleaned from the comparative genomes analysis of clinical and non-clinical isolates of Klebsiella pneumoniae.	Rajkumari R, Chakraborty S, Pandey P.	Bioinformation 16(3): 256-268. IF: 6.937	2020
55.	Linking gut microbiota with human diseases.	Vandana UK, Barlaskar NH, Md. Gulzar AB, Laskar IH, Kumar D, Paul P, Pandey P, Mazumder P.B.	Bioinformation 16(2):196-208.	2020
56.	Rhizosphere mediated biodegradation of benzo(A)pyrene by surfactin producing soil bacilli applied through Melia azadirachta rhizosphere,	RhituKotoky& Piyush Pandey	International Journal of Phytoremediation 22: 363-372 IF 3.212	2020
57.	Cadmium resistant plant growth promoting rhizobacteria Serratia marcescens S2I7 associated with the growth promotion of rice plant.	Kotoky, R., Nath, S., Kumar Maheshwari, D., Pandey, P.	Environmental Sustainability 2: 135. https://doi.org/10.1007/ s42398-019-00055-3	2019
58.	Environmental applications of microbial extremophiles in the degradation of petroleum hydrocarbons in extreme environments.	Rajkumari, J., Bhuyan, B., Das, N., Pandey, P.	Environmental Sustainability. https://doi.org/10.1007/ s42398-019-00065-1.	2019
59.	AcrAB-TolC efflux pump system plays a role in carbapenem non-susceptibility in Escherichia coli.	Chetri S, Bhowmik D, Paul D, Pandey P, Chanda DD, Chakravarty A, Bora D and Bhattacharjee A.	BMC Microbiology 19(1). DOI: 10.1186/s12866-019- 1589-1 IF: 4.465	2019
60.	An array of multiplex PCR assays for detection of	Bhowmik D, Das BJ,Pandey	Journal of	2019

	staphylococcal chromosomal cassette <i>mec</i> (SCC <i>mec</i>) types among staphylococcal isolates.	P,Chetri S, <u>Chanda DD</u> , Bhattacharjee A.	Microbiological Methods. 166, 105733 https://doi.org/10.1016/ j.mimet.2019.105733 IF 2.622	
61.	Rhizoremediation prospects of Polyaromatic hydrocarbon degrading rhizobacteria, that facilitate glutathione and glutathione-S-transferase mediated stress response and enhance growth of rice plants in pyrene contaminated soil.	Singha L. P., Sinha N., Pandey P.	Ecotoxicology and Environmental Safety. 164: 579-588. IF 7.129	2018
62.	Draft Genome Sequence of Bacillus subtilis Strain FB6-3, Isolated from Fermented Bamboo Shoot.	Khunjan O., Pandey P. Microbiology Resource Announcement. e01319-18. IF: 0.877		2018
63.	A multispecies consortium of bacteria having plant growth promotion and antifungal activities, for the management of <i>Fusarium</i> wilt complex disease in potato (<i>Solanumtuberosum</i> L.).	Devi A. R., Sharma G. D., Majumder P. B., Pandy P. Agricultural Biotechnology. 614-624. IF: 4.26		2018
64.	Differences in rice rhizosphere bacterial community structure by application of lignocellulolytic plant-probiotic bacteria with rapid composting traits.	Nevita T., Sharma G. D., Pandey P.	Ecological Engineering. 120: 209- 221. IF 4.035	2018
65.	Composting of rice residue using lignocellulolytic plant –probiotic <i>Stenotrophomonas maltophilia</i> and its evaluation for growth enhancement of <i>Oryza sativa</i> L.	Nevita T., Sharma G.D., Pandey P.	Environmental Sustainability 1: 185	2018
66.	The rhizosphere microbiome: Significance in rhizoremediation of polyaromatic hydrocarbon contaminated soil.	Kotoky, R., Rajkumari, J., Pandey, P.	Journal of Environmental Management, 217: 858-870. IF 8.910	2018
67.	Draft Genome Sequence of Klebsiella pneumoniae AWD5 (vol 5, e01531, 2017)	J Rajkumari, LP Singha, P Pandey	MICROBIOLOGY RESOURCE ANNOUNCEMENTS 6 (4) IF: 0.877	2018
68.	Genomic insights of aromatic hydrocarbon degrading <i>Klebsiellapneumoniae</i> AWD5 with plant growth promoting attributes: a paradigm of soil isolate with elements of biodegradation.	Rajkumari J., Singha L.P., 3 Biotech. 8, 118. IF: 2.893		2018
69.	Shape dependent physical mutilation and lethal effects of silver nanoparticles on bacteria.	Acharya D., Singha K.M., Scientific Reports. Pandey P., Mohanta B., 8:201. Rajkumari J., Singha L.P. IF 4. 6		2018
70.	Rhizosphere mediated nutrient management in <i>Allium hookeri</i> Thwaites by using phosphate solubilizing rhizobacteria and tricalcium phosphate amended soil.	Kshetri, L.,Pandey, P., Journal of Plant Sharma, G. D. Interactions, 13:256-		2018
71.	Fermentation and Process Optimization of <i>Soibum</i> -A traditional Food of Manipur India, using <i>Serratias</i> p	Khunjan O., Pandey P., Sharma G. D.	Climate Change and Environmental Sustainability. 6(2): 127-138.	2018
72.	Exiguobacteriumaurantiacum mediated fermentation of bamboo shoot and process optimization for Soibum production: A traditional food of Manipur, North-East India.	Khunjan O., Pandey P., Sharma G. D.	International Journal of Food Fermentation Technology. 8(1): 51-62.	2018

73.	Plant-microbe Symbiosis as an Instrument for the	R Kotoky, P Pandey	Current Biotechnology	2018
	Mobilization and Removal of Heavy Metals from Contaminated Soils – A Realistic Approach		7 (2), 71-79	
74.	Fermentation and Process Optimisation of Soibum-A Traditional Food of Manipur India, Using Serratia sp.	O Khunjan, P Pandey, GD Sharma	Climate Change and Environmental Sustainability 6 (2), 127-138	2018
75.	Erratum for Rajkumari et al., "Draft genome sequence of Klebsiella pneumoniae AWD5."	J Rajkumari, LP Singha, P Pandey	Genome Announc 6: e01593-17	2018
76.	Antibacterial properties of synthesized Ag and Ag@SiO2 core-shell nanoparticles: a comparative study	D Acharya, B Mohanta, P Pandey, F Nasiri	Canadian Journal of Physics 96 (8), 955-960 IF: 1.24	2018
77.	The endophyticsymbiont- <i>Pseudomonas aeroginosa</i> stimulates the antioxidant activity and growth of <i>Achyranthesaspera</i> L	Devi K.A., Pandey G., Rawat A.K.S., Sharma G.D., Pandey P.	Frontiers in Microbiology, 8:1897. IF: 6.064	2017
78.	Solubilization of Inorganic Phosphate by Rhizobacteria of Allium hookeri Thwaites and Influence of Carbon and Nitrogen Sources Amendments.	Kshetri L., Pandey P., Sharma G. D	Journal of Pure Applied and Microbiology. 11(4): 1899-1908.	2017
79.	Draft genome sequence of Heavy Metal resistant soil bacterium, <i>Serratiamarcescens</i> S2I7, with ability to degrade Polyaromatic Hydrocarbons.	Kotoky R., Singha LP., Pandey P.	Genome Announcements. 5 (48) e01338-17.	2017
80.	Microbial fermentation by traditional process using intrinsic microflora reduces the cyanide content of bamboo shoots.	Khunjan O., Sharma G. D., Pandey P.	Journal of Pure and Applied Microbiology. 11(1): 465-473. IF:0.483	2017
81.	Draft genome sequence <i>Alcaligenesfaecalis</i> BDB4, a polyaromatic hydrocarbon degrading bacterium isolated from crude oil contaminated soil.	Singha LP., Kotoky R., Pandey P.	Genome Announcements. 5 (48) e01346-17.	2017
82.	Draft genome sequence of PAH degrading <i>Bacillus subtilis</i> SR1, with plant growth promoting attributes.	Kotoky R., Singha LP., Pandey P.	Genome Announcements. 5 (49) e01339-17.	2017
83.	Draft genome sequence <i>Pseudomonas fragi</i> DBC with ability to degrade high molecular weight polyaromatic hydrocarbons.	SinghaL P., Kotoky R., Pandey P.	Genome Announcements. 5 (49) e01347-17.	2017
84.	Biodegradation of Benzo(a)pyrene by biofilm forming and plant growth promoting <i>Acinetobacter</i> sp. strain PDB4.	Kotoky R, Das S, Singha L. P, Pandey P, Singha K. M.	Environmental Technology & Innovation 8, 256–268. IF: 7.758	2017
85.	Rhizosphere mediated biodegradation of 1,4-dichlorobenzene byplant growth promoting rhizobacteria of <i>Jatrophacurcas</i> .	Pant R., Pandey P., Kotoky R.	Ecological Engineering 94, 50–56. IF: 4.379	2016
86.	Glutathione and glutathione-S-transferase activity in <i>Jatrophacurcas</i> in association with pyrene degrader <i>Pseudomonas aeruginosa</i> PDB1 inrhizosphere, for alleviation of stress induced by polyaromatichydrocarbon for effective rhizoremediation.	Singha LP, Pandey P.	Ecological Engineering 102, 422–432 IF: 4.379	2017
87.		Kotoky, R., and Pandey, P.	Current Biotechnology 7(2), 71-79	2017

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88.	Glutathione and glutathione-S-transferase activity in <i>Jatrophacurcas</i> in association with pyrene degrader <i>Pseudomonasaeruginosa</i> PDB1 in rhizosphere, for alleviation of stress induced by polyaromatic hydrocarbon for effective rhizoremediation.	L. Singha, P., Pandey, P.	Ecological Engineering, 102:422- 432 IF: 4.379	2017
89.	Characterization of plant growth promoting rhizobia from root nodule of <i>Mimosa pudica</i> grown in Assam, India.	Singha, B., Mazumder, P. B., Pandey, P.	Journal of Environmental Biology. 38:441-447	2017
90.	Characterization of Plant Growth Promoting Rhizobia from Root Nodule of Two Legume Species Cultivated in Assam, India.	Singha, B., Mazumder, P.B. and Pandey, P.	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. 88: 1007–1016 doi:10.1007/s40011- 016-0836-6	2018
91.	Draft genome sequence of <i>Klebsiella</i> pneumoniae AWD5.	Rajkumari J, Singha LP, Pandey P.	Genome Announc5:e01531-16.	2017
92.	Optical and antibacterial properties of synthesised silver nanoparticles.	Acharya, D., Mohanta, B., Pandey, P., Singha, M., Nasiri, F.	Micro & Nano Letters, IET Digital Library. 22 (4), 223-226. IF: 1.099	2017
93.	Plant Growth-Promoting Endophyte Serratia marcescens AL2-16 Enhances the Growth of Achyranthes aspera L., a Medicinal Plant.	Devi, K. A., Pandey, P., Sharma, G. D.	Hayati Journal of Biosciences. 23: 173- 180	2017
94.	Characterization of Plant Growth Promoting Rhizobia from Root Nodule of Two Legume Species Cultivated in Assam, India	B Singha, PB Mazumder, P Pandey	Proceedings of the National Academy of Sciences, India Section B: Biological	2017
95.	Bacteria consortium optimization improves nutrient uptake, nodulation, disease suppression and growth of the common bean (<i>Phaseolus vulgaris</i>) in both pot and field studies.	Kumar, P., Pandey, P., Dubey, R. C., Maheshwari, D. K.	Rhizosphere 2: 13-23 IF: 3.437	2016
96.	Optical Properties of synthesized colloidal silver nanoparticles and their antibacterial effects.	Acharya, D., Pandey, P., Nasiri, F., Singha, K. M., Mohanta, B.	Journal of Bionanoscience 10: 511-515. IF:2.305	2016
97.	Rhizosphere mediated biodegradation of 1, 4-dichlorobenzene by plant growth promoting rhizobacteria of <i>Jatropha curcas</i> .	Pant., R., Pandey, P., Kotoky, R.	Ecological Engineering 94: 50-56 IF: 4.379	2016
98.	Volatile organic compounds from native potato- associated <i>Pseudomonas</i> as potential anti-oomycete agents.	De Vrieze, M., Pandey, P., Bucheli, T. D., Varadarajan, A. R., Ahrens, C. H., Weisskopf, L., Bailly, A.	Frontiers of Microbiology.6: 1295 (1-15) IF: 6.064	2016
99.	Bacteria consortium optimization improves nutrient uptake, nodulation, disease suppression and growth of the common bean (<i>Phaseolus vulgaris</i>) in both pot and field studies.	Kumar, P., Pandey, P., Dubey, R. C., Maheshwari, D. K.	Rhizosphere 2, 13-23. IF: 3.437	2016
100.	Unusual rotavirus genotypes in humans and animals with acute diarrhoea in Northeast India.	Chakraborty, P., Bhattacharjee, M. J., Sharma, I., Pandey, P., Barman, N. N.	Epidemiology and Infection, 144:2780- 2789	2016

			IF: 2.451	
101.	Characterization of plant growth promoting rhizobia from root nodule of Crotolariapallida grown in Assam,	Singha, B., Mazumder, P. B., Pandey, P.	Indian Journal of Biotechnology 15:10-16.	2015
102.	Bioremediation of polyaromatic hydrocarbons (PAH) using rhizosphere technology.	Bisht, S., Pandey, P., Bhargava, B., Sharma, S., Kumar, V., Sharma., K. D.	Brazilian Journal of Microbiology. 46: 7-21. IF: 2.214	2015
103.	Plant Growth Promoting Rhizobacteria (PGPR) and their application for sustainable Agriculture in North Eastern Region of India.	Kshetri, L., Nevita, T., Pandey, P.	ENVIS Bulletin Himalayan Ecology. 23: 41-47	2015
104.	Role of cadmium and lead tolerant pseudomonas aeruginosa in seedling germination of rice (Oryza sativa L.)	S Nath, B Deb, I Sharma, P Pandey	Journal of Environmental & Analytical Toxicology 4 (4), 1 IF: 3.367	2014
105.	Pseudomonas aeruginosa SN4 Enhances seedling growth of Oryza sativa in cadmium contaminated soil	S Nath, B Deb, I Sharma, A Pandey	Current World Environment 9 (2), 478	2014
106.	Screening the Rhizobium from <i>Cajanus cajan</i> for Plant Growth Promoting Factors	K Deb, B Deb, P Pandey	The International Journal of Science and Technoledge 2 (8), 134	2014
107.	Anthropogenic activities as a source of high prevalence of antibiotic resistant Staphylococcus aureus in the river Ganga	A Sood, P Pandey, S Bisht, S Sharma	Appl Ecol Environ Res 12 (1), 33-48	2014
108.	Utilization of endophytic strain <i>Bacillus</i> sp. SBER3 for biodegradation of polyaromatic hydrocarbons (PAH) in soil model system.	Bisht, S., Pandey, P., Kaur, G., Aggarwal, H., Sood, A., Sharma, S., Kumar, V., Bisht, N. S.	European Journal of Soil Biology. 60: 67-76. IF:2.846	2014
109.	Prevalence of MBL producing Pseudomonas sp. from soil-A case study in Assam University campus.	R Das, P Sinha, P Pandey, D Kar	Global Adv Res J Microbiol 3 (6), 098- 101	2014
110.	Colonization and antagonistic activity of ntomopathogenic Aspergillus sp. against tea termite (Microcerotermes bees on i Snyder).	Pandey, P., Singha, P., Singha, B.	Current Science. 105: 1216-1218 IF: 1.102	2013
111.	Isolation and characterization of heavy metal resistant bacteria and its effect on shoot growth of Oryza sativa inoculated in industrial soil	S Nath, B Deb, I Sharma, P Pandey	Annals of Plant Sciences 2, 188-193	2013
112.	-	Kumar., V., Bharti, A., Bisht, G. S., Negi, Y. K., Gusain, O.P. and Pandey, P.	Brazilian Journal of Microbiology. 43: 205- 214. IF: 2.214	2012
113.	Transformation of pWWO in <i>Rhizobium leguminosarum</i> DPT to engineer toluene degrading ability for rhizoremediation.	Goel G., Pandey P., Sood A., Bisht S., Maheshwari D.K and Sharma G.D.	Indian Journal of Microbiology52: 197-202.	2012
114	Multifarious activity of bioformulated <i>Pseudomonas</i>	Aeron, A., Dubey, R. C.,	IF: 3.73 European Journal of	2011

	fluorescensPS1 and biocontrol of Sclerotiniasclerotiorum in Indian rapeseed (Brassica campestrisL.).	Maheshwari, D. K., Pandey, P., Bajpai, V. K., Kang, S. C.	Plant Pathology 131: 81-93.	
115.	Biodegradation of naphthalene and anthracene by chemo-tactically active rhizobacteria of <i>Populus deltoids</i> .	Bisht, S., Pandey, P., Sood, A., Sharma, S. and Bisht, S.	Brazilian Journal of Microbiology. 41:922- 930. IF: 2.214	2010
116.	Differential response in growth of sesame under influence of indigenous and non-indigenous rhizosphere competent fluorescent pseudomonads.	Aeron, A., Pandey, P. and Maheshwari, D. K.	Current Science. 99: 166-168. IF: 1.169	2010
117.	Assessment of bacterial diversity in Gangetic river system of Uttarakhand, India.	Sood, A., Pandey, P., Bisht, S., Sharma, S., Gusain, M. and Gusain, O. P.	Current Science.99: 1660-1663. IF: 1.169	2010
118.	Co-inoculation of urea and DAP tolerant Sinorhizobiummeliloti and Pseudomonasaeruginosaas integrated approach for growth enhancement of Brassica juncea.	Maheshwari, D. K., Kumar, S., Kumar, B. and Pandey, P.	Indian Journal of Microbiology50:425–431.	2010
119.	Rhizosphere competent <i>P. aeruginosa</i> in the management of <i>Heteroderacajani</i> on sesame. World	Kumar, T., Wahla, V., Pandey, P., Dubey, R. C. and Maheshwari, D. K.	Journal of Microbiology and Biotechnology. 25: 277-285.	2009
120.	Reduction in dose of chemical fertilizers and growth enhancement of sesame (<i>Sesamumindicum</i> L.) with application of rhizospheric competent <i>Pseudomonasaeruginosa</i> LES4.	Kumar, S., Pandey, P. and Maheshwari, D. K.	European Journal of Soil Biology. 45: 334-340. IF: 3.234	2009
121.	Process of rock phosphate solubilization by <i>Aspergillus</i> sp. PS 104 in soil amended medium.	Kang, S. C., Pandey, P. and Maheshwari, D. K.	Journal of Environmental Biology. 29: 743-746.	2008
122.	Biological control of root rot fungus <i>Macrophominaphaseolina</i> & growth enhancement of <i>Pinusroxburghii</i> by rhizosphere competent <i>Bacillus subtilis</i> BN1.	Singh, N., Pandey, P., Dubey, R. C. and Maheshwari, D. K.	World J. of Microbiol. Biotech. 24: 1669- 1679. IF: 3.312	2008
123.	Assessment of bacterial indicators and physicochemical parameters to investigate pollution status of Gangetic river system of Uttarakhand (India).	Sood, A., Singh, K. D., Pandey, P. and Sharma, S.	Ecological Indicators. 8: 709-717. IF: 4.958	2008.
124.	Bioformulation of <i>Burkholderia</i> sp. MSSP with a multi-species consortium for growth promotion of <i>Cajanus cajan</i> .	Pandey, P. and Maheshwari, D. K.	Can. J. Microbiol 53: 213–222. IF: 2.419	2007
125.		Singh, S., Sood, A., Sharma, S., Kumar, V., Singh, K. D. and Pandey, P.	Chin. J. Appl. Environ. Biol. 13: 357-3	2007
126.	Two-species microbial consortium for growth promotion of <i>Cajanus cajan</i> .	Pandey, P. and Maheshwari, D. K.	Current Science. 92: 1137-1142. IF: 1.102	2007

127.	Microbial decolorization and bioremediation of melanoidin containing molasses spent wash.	Singh, K. D., Sharma, S., Dwivedi, A., Pandey, P., Thakur, R. L. and Kumar, V.	Journal of Environmental Biology. 28: 675-677.	2007
128.	Influence of rhizospheric bacteria on the allelopathic potential of <i>Brassica</i> on wheat.	Poonam, S., Sharma, S., Kumar, V., Pandey, P., Thakur, R. L., Bisht, G. R. S., Upadhyay, R. G.	International Journal of Tropical Agriculture. 24: 1-6. IF: 0.103	2006
129.	Rhizosphere competent <i>Pseudomonas aeruginosa</i> GRC ₁ produces characteristic siderophore and enhance growth of Indian mustard (<i>Brassica campestris</i>).	Pandey, P., Kang, S. C., Gupta, C. P. and Maheshwari, D. K.	Curr. Microbiol. 51: 303-309. IF: 2.188	2005.
	Antibacterial potential of extracts of Lantana camara-A prominent weed of northern India	AK Pandey, P Pandey, S Sharma, DK Maheshwari	Universities J PhytochemAyur Heights 1, 18-23	2005
131.	Performance evaluation of three stage water purifier for ground water in rural community around Dehradun	A Dwivedi, S Sharma, P Pandey, RG Upadhyay	Indian journal of environmental protection 25 (6), 503	2005
132.	Isolation of endophytic plant growth promoting <i>Burkholderia</i> sp. from root nodules of <i>Mimosa pudica</i> .	Pandey, P., Kang, S. C. and Maheshwari, D. K.	Current Science. 89: 177-180. IF: 1.102	2005
133.	Genetic diversity of rhizobia isolated from medicinal legumes growing in the sub-Himalayan region of Uttaranchal.	Pandey, P., Sahgal, M., Maheshwari, D. K. and Johri, B. N.	Current Science. 86: 202-207. IF: 1.102	2004
134.	Solid-state production of lignolytic enzymes by <i>Aspergillusniger</i> using high pressure steam treated bagasse as substrate.	Gupta, S., Garg, I., Pandey, A. K., Pandey, P. and Sharma, C. B.	Proc. Nat. Acad. Sci. India. 74: 171-177.	2004
135.	Rhizobia as a biocontrol agent against soil borne plant pathogenic fungi.	Deshwal, V. K., Pandey, P., Kang, S. C. and Maheshwari, D. K.	Ind. J. Exp. Biol. 41: 1160-1164.	2003
136.	Production of cellulase – free thermostable xylanases by an isolated strain of <i>Aspergillus niger</i> PPI, utilizing various lignocellulosic wastes.	Pandey, P and Pandey A. K.	World J Microbiol. Biotechnol. 18: 281- 283. IF: 3.312	2002
137.	Studies on the biological treatment of digested distillery spent wash effluent using mutant strain of <i>Phanerochaete chrysosporium</i> .	Gupta, S., Pandey, A. K., Sharma, N. C. Pandey, P. and Sharma, C. B.	Proc. Nat. Acad. Sci. India. 71: 259-267.	2001

PATENTS

SR. NO	TITLE OF PATENT	PATENT APPLICATION NUMBER	INVENTERS	NBA APPLICATION NUMBER	CURRENT STATUS OF PATENT
1.	System and method for development of <i>Kluyvera</i> sp. based bioinoculant/bioformulation of black rice	202231052368	Prof. Piyush Pandey, K. Malabika Singha, Sourav Debnath, L. Paikhomba Singha	INBA3202304294	Granted
2.	A Method For Rhizobial Bioformulation With An Isolate - Ochrobactrum Species And Its Composition Thereof	202231046282	Piyush Pandey, Sourav Debnath, K. Malabika Singha, Nandita Das	INBA3202304291	Granted

Research Project Details

SR.	TITLE OF PROJECT	FUNDING	FROM	ТО	NO. OF Staff UNDER THE	TOTAL APPROVED	ROLE OF PI	CURRENT STATUS
NO		AGENCY	DATE	DATE	PROJECT	COST		OF PROJECT
1	Assessment of effect of multispecies consortium of effective bacterial strains of scented rice origin on improving yield and functional traits and impact on rhizosphere microbiome of scented rice in multi-location field trails at Assam and Manipur	DBT	Sanctio	-	1 Project associate II	Duration 3 years, 59,91,158.00	PI	Sanctioned (Funds awaited)
2.	Sustainable Restoration of Agricultural Soils contaminated with complex hydrocarbon pollutants of 'produced- water' through Rhizoremediation	NHMS- MoEF	22.02.2 024	22.02.2 027	1 SRF	Duration 3 years, 50 lacs	PI	Ongoing
3.	Exploration of native legumes and characterization of associated nitrogen fixing microsymbionts in North-Eastern India for development of biofertilizers	DBT	09.03.2 022	09.03.2 025	2 Project associates	Duration 3 years, 54,89lacs	PI	Ongoing
4.	Ecological and physiological roles of microorganisms of glaciers of North Sikkim, India for impact assessment on climate change	DBT	20.03.2	20.03.2	1 JRF	Duration 3 years 38.93916lacs	PI	Ongoing
5.	Utilization of soil and plant microbial resources for enhancing the productivity of cropping system and soil health under jhum and terrace/valley agroecosystems of Eastern and North-Western Indian Himalayas	DBT	10.07.2 020	10.07.2 023	1 JRF	Duration 3 years, 32,08lacs	PI	Ongoing
6.	Rhizosphere Microbiome for Improving Symbiotic Nitrogen Fixation and yield of lentil in North Eastern States of India.	DBT	20.10.2	19.04. 2020	1 JRF	Duration 3 years, 36.76+24.76= 61.52lacs	PI	Completed
7.	Microbial roles in yield management of scented rice of north east India, component - Functional analysis of endophytic Microbiome for Growth	DBT	19.10.2 016	18.04.2 020	1 JRF	(Duration 3 years, 42.28+29.23= 71.51lacs)	PI	Completed

	and Antioxidant activity in Black-Rice of North-East India,							
8.	Impact of rhizosphere mediated bioremediation of polyaromatic hydrocarbons on different soil microbiomes, in contaminated surface soil of oil and gas drilling sites in Assam.	DBT	31st March 2017	Extensi on request ed	2JRF 2 Traineeships 2 Studentships	(Duration 3 years, 131.068 lacs)	PI	Completed
9.	Incidences of red rust and black rot diseases in <i>Thea sinensis Kuntze</i> growing in South Assam, India using Foldscope, and correlation of on-site observations with molecular data.	DBT	20.03.2 018	19.09.2 019	1 JRF	(Duration 1 year, 08 lacs)	PI	Completed
10.	Bioremediation Approaches for Onsite Treatment of Soil Contaminated with Crude Oil.	DBT	19.03.2 019	18.03.2	1 JRF 1 RA	(Duration 3 years, 84.182 lacs)	PI	Completed
11.	Development of microbial inoculants to improve growth and productivity od Darjeeling and Assam Tea.	NHMS- MoEF	21.01.2 019	20-01-	1 JRF	(Duration 3 years,) 73.6064 lakhs	PI	Completed
12	Assessment of bacterial diversity in Gangetic River system of Uttarakhand using molecular approaches funded by Department of Science and Technology, Uttarakhand Council for Science and Technology, Dehradun.	UCOST	2007	2010	1 JRF	12.5 lakhs	PI	Completed
13.	Environmental Restoration using plant – microbe interaction: Rhizoremediation	IERP- MoEF	2008	2011	1 Project Fellow	4.95 lakhs	PI	Completed
14.	Bioremediation of Polyaromatic Hydrocarbon contaminated soil using plant-microbe interaction in rhizosphere'.	DBT	06.09.2 013	05.03.1 7	1 JRF	25.40 lakhs	PI	Completed
15	Molecular analysis of efflux pump mediated resistance in Gram negative bacilli'.	DBT	19.02.2 014	18.08.1 8	1 JRF	87.65 lakhs	CoPI	Completed
16	Molecular insight into Staphylococcal chromosomal cassette mec (SCCmec) using an epidemiological marker for molecular diagmostic	DBT	02.08.2 016	01.08.2 019	1JRF	31.296 lakhs	СоРІ	Completed

Administrative Experience:

- Head, Dept of Microbiology, Assam University: 2011 2024
- Director, IQAC, Assam University: 2021 ongoing

Educational Details:

Ph. D. in Microbiology, Department of Botany Microbiology, Gurukul Kangri University, Haridwar,				
Title of Thesis	Role of Rhizobacteria in Biocontrol and growth p of <i>Cajanus cajan</i> .			
M. Sa (Miarabialagy)	C. C. S. Meerut University in 2000	I division		
M. Sc (Microbiology)	C. C. S. Meetut Offiversity in 2000	(74.2%)		

Consultancy: Consultancy projects undertaken with tea-planters for microbiological solutions.

Details of awards/recognitions/fellowships

- Guest Professor, Gifu University/ Shizuoka University, Japan
- DBT Overseas Associate award, Agroscope, Switzerland, 2014
- Shastri Indo-Canadian SMP award 2020 York University, Canada
- Unit of Excellence Award by DBT, 2017
- Fellow, International Society of Environmental Botanists
- Ex-Member, DBT Technical Expert Committee on Energy, Environment and Biodiversity Conservation for NER.
- Member, Board of Studies: Assam University, Sikkim University
- Member, Board of Research Studies: Assam University, Mizoram University
- Associate Editor: Environmental Sustainability (Springer), Frontiers in Microbiology, Frontiers in Genetics
- Award for Excellent Contribution to the Journal Environmental Sustainability by Springer Nature, 2019
- 'Excellence in PGPR Research' award from Asian PGPR Society (2021)
- Qualified National Eligibility Test (NET) for Lectureship in July 2000.
- Qualified National Eligibility Test (NET) for Junior Research Fellowship in December 2000.
- Qualified GATE (Life Sciences) in 2001.
- Travel grant from DST for attending FEMS Conference, Sweden
- NAAC accessor, and acted as Member Coordinator in several Peer Team Visits

PhD Guidance: 15 (awarded), 08 (ongoing)

Book published: 03, Book series on - Bacillus in Agrobiology (Springer Nature) (Editor) **Opinion paper**: Pandey, P., Arora, N.K. 2020. Prof. Ananda Mohan Chakrabarty: The Superbug Superhero! Environmental Sustainability 3, 333–335 (2020).

Book chapters:

SL. NO	TITLE OF THE BOOK	AUTHORS	PUBLICATION	YEAR
1.	An Overall Insight Into the Attributes, Interactions, and Future Applications of "Microbial Consortium" for Plant Growth Promotion with Contemporary Approaches.	Maheshwari, D.K., Das, A., Dheeman, S., Pandey, P.	In: Maheshwari, D.K., Dheeman, S. (eds) Sustainable Agrobiology. Microorganisms for Sustainability, vol 43. Springer, Singapore.	2023
2.	Interactions of Rhizobia with Nonleguminous Plants: A Molecular Ecology Perspective for Enhanced Plant Growth.	Debnath, S., Das, N., Maheshwari, D.K., Pandey, P.	In: Maheshwari, D.K., Dobhal, R., Dheeman, S. (eds) Nitrogen Fixing Bacteria: Sustainable Growth of Nonlegumes. Microorganisms for Sustainability, vol 36. Springer, Singapore	2022
3.	The Rhizosphere Microbiome and Its Role in Plant Growth in Stressed Conditions.	Bhuyan, B., Debnath, S., Pandey, P.	In: Sharma, S.K., Singh, U.B., Sahu, P.K., Singh, H.V., Sharma, P.K. (eds) Rhizosphere Microbes. Microorganisms for Sustainability, vol 23. Springer, Singapore	2020
4.	Role of <i>Serratia</i> spp. as biocontrol agents and plant growth stimulator, with prospects of biotic stress management in plant.	Kshetri L, Naseem F, Pandey P	In: Sayyed RZ (Ed), Plant Growth Promoting Rhizobacteria for Sustainable Management- Vol. 2 Rhizobacteria in Biotic Stress Management. Springer-Nature, Singapore (in press).	2019
5.	Genomic Insights and Comparative Genomics of <i>Bacillus</i> Species Having Diverse Mechanisms of Biocontrol Against Fungal Phytopathogens.	Rajkumari J, Pandey P.	In: Islam M., Rahman M., Pandey P., Boehme M., Haesaert G. (eds) Bacilli and Agrobiotechnology: Phytostimulation and Biocontrol. Bacilli in Climate Resilient Agriculture and Bioprospecting. Springer, Cham.	2019.
6	Rhizoremediation of Polyaromatic hydrocarbon contaminated soil: Constrains and Future potential.	Pandey, P, L. Singha, P, Dutta, A.	<i>In</i> : Microbes in Action. <i>Eds.</i> Garg, N., Aeron, A. Nova Publishers.	2016.
7	Interactions in rhizosphere for bioremediation of heavy metals.	Nevita, T., Pandey, P., Maheshwari, D. K., Sood, A.	In: Bacteria in Agrobiology: Crop Productivity. Ed. Maheshwari, D. K. Springer-Verlag, Heidelberg, Germany. 439-461	2013.
8	Consortium of plant growth promoting bacteria: future perspective in agriculture.	Pandey P, Bisht S, Sood A, Sharma G. D. and Maheshwari D. K.	In: Bacteria in Agrobiology: Plant Probiotics. Ed. Maheshwari, D. K. Springer-Verlag, Heidelberg, Germany. 185-200.	2012.
9	Sustainable approaches for biological control of Fusarium wilt in pigeon pea (<i>Cajanuscajan</i> L. Millspaugh).	Pandey, P. and Maheshwari, D. K.	In: Plant Growth and Health Promoting Bacteria, Microbiology Monographs, Vol. 18, (ed: Maheshwari, D. K.) 231-249.	2011.
10	Emerging Role of Plant Growth Promoting Rhizobacteria in	Abhinav Aeron, Sandeep	In: Bacteria in Agrobiology: Crop Ecosystem. Ed. Maheshwari, D. K.	2011.

	Agricultural and Allied Industry.	Kumar, Piyush	Springer-Verlag, Heidelberg,	
		Pandey, Dinesh	Germany. 1-36.	
		Kumar Maheshwari.		
11	Ecofriendly management of charcoal	Sandeep Kumar,	In: Bacteria in Agrobiology: Crop	2011.
	rot and Fusarium wilt diseases in	Abhinav	Ecosystem. Ed. Maheshwari, D. K.	
	Sesame (Sesamum indicum L.).	Aeron, PiyushPandey,	Springer-Verlag, Heidelberg,	
		Dinesh Kumar	Germany. 387-405.	
		Maheshwari.		
12	Bacterial toxins: specially designed	Pandey, P.	Publisher: Stadium Press (India)	2010.
	proteins for eukaryotic targets.		Pvt.Ltd.	
	Microbial toxins and toxigenic			
	microbes (eds. Pandey, V. D. and			
	Singh, S. K)			
13	Application of Fusaria in agricultural	Pandey, P., Saraf, M.,	I. K. International Publishing House.	2006.
	and industrial biotechnology. In:	Dubey, R. C. and	New Delhi. India. pp. 199-212.	
	Biotechnological applications of	Maheshwari, D. K.		
	microorganisms: A tecno-			
	commercial approach. (eds.			
	Maheshwari, D. K. and Dubey, R.			
	C.)			
14	Production of a pH stable and	Pandey, A. K., Sahay,	In: Zoology and Human Welfare	2004.
	thermostable alkaline protease from	H. and Pandey, P.	(Editor- Ashok Verma) University of	
	Pseudomonas sp. HPA utilizing		Allahabad.	
	different substrates.			