

CURRICULUM VITAE

Name: **Prof. Piyush Pandey**
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Department: Department of Microbiology
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Number of research projects being handled at present: 02

Professional Experience: 20 years

Details of awards/recognitions/fellowships of prestigious Academies, citations received till the date of the application, h-index, etc.

- DBT Overseas Associate award, Agroscope, Switzerland, 2014
- Shastri Indo-Canadian SMP award (yet to avail)
- Unit of Excellence Award by DBT, 2017
- 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
- Editorial responsibilities: Environmental Sustainability (Springer), Frontiers in Microbiology
- Award for Excellent Contribution to the Journal Environmental Sustainability by Springer Nature, 2019
- Registered NAAC Assessor and peer team member
- Travel grant from DST for attending FEMS Conference, Sweden
- 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.

Citation details

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

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Research Publication (selected)

SR. NO	TITLE OF PAPER	AUTHORS	REFERENCE OF JOURNAL	YEAR
1	Rhizosphere assisted bioengineering approaches for the mitigation of petroleum hydrocarbons contamination in soil	L Paikhamba Singha, Piyush Pandey	Critical Reviews in Biotechnology IF 8.429	2021
2	Paradigm shift in Antibiotic-Resistome of petroleum hydrocarbon contaminated soil.	Nandita Das, Rhitu Kotoky, Anand Maurya, Bhriгу Bhuyan, Piyush Pandey	Science of the Total Environment 757:143777, IF 7.963	2021
3	The genomic attributes of Cd-resistant, hydrocarbonoclastic Bacillus subtilis SR1 for rhizodegradation of benzo(a)pyrene under co-contaminated conditions.	Rhitu Kotoky, Piyush Pandey	Genomics IF 5.736	2021
4	Host specific endophytic microbiome diversity and associated functions in three varieties of scented black rice are dependent on growth stage.	K. Malabika Singha, Brahmanand Singh, Piyush Pandey	Scientific Reports IF 4.379	2021
5	Rhizodegradation of Pyrene by a Non-pathogenic Klebsiella pneumoniae Isolate Applied With Tagetes erecta L. and Changes in the Rhizobacterial Community	Jina Rajkumari, Yashmin Choudhury, Kasturi Bhattacharjee, Piyush Pandey	Frontiers in Microbiology IF 5.26	2021
6	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). https://doi.org/10.1007/s11356-020-12171-3 IF 4.223	2021
7	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	2021
8	A comparative study on the antibacterial activity of different shaped silver nanoparticles	D Acharya, P Pandey, B Mohanta	Chemical Papers IF 2.097	2021

9	Interplay of weather variables in triggering the transmission of SARS-CoV-2 infection in Asia	A Dalal, P Pandey	Environmental Sustainability	2021
10	The Endophytic Microbiome as a Hotspot of Synergistic Interactions, with Prospects of Plant Growth Promotion	Udaya Kumar Vandana, Jina Rajkumari, L Paikhomba Singha, Lakkakula Satish, Hemasundar Alavilli, Pamidimarri DVN Sudheer, Sushma Chauhan, Rambabu Ratnala, Vanisri Satturu, Pranab Behari Mazumder, Piyush Pandey	MDPI Biology IF 5.079	2021
11	Expressional Pattern of psm-mec System in Methicillin-Resistant Staphylococcus aureus Under Oxacillin Stress	Deepshikha Bhowmik, Shiela Chetri, Piyush Pandey, Bhaskar Jyoti Das, Jayalaxmi Wangkheimayum, Nargis Alom Choudhury, K Melson Singha, Debadatta Dhar Chanda, Amitabha Bhattacharjee	Current Microbiology IF 1.746	2021
12	Biodegradation of High Molecular Weight Polyaromatic Hydrocarbons in Different Environments	P Pandey, A Kapley, SK Brar	Frontiers in Microbiology IF 5.26	2021
13	Comparative Metagenomic Analysis of Two Alkaline Hot Springs of Madhya Pradesh, India and Deciphering the Extremophiles for Industrial Enzymes	Kamlesh Choure, Shreyansh Parsai, Rhitu Kotoky, Arpit Srivastava, Anita Tilwari, Piyush Kant Rai, Abhishek Sharma, Piyush Pandey	Frontiers in Genetics IF. 3.789	2021
14	Development, spread and persistence of antibiotic resistance genes (ARGs) in the soil microbiomes through co-selection	Anand Prakash Maurya, Jina Rajkumari, Amitabha Bhattacharjee and Piyush Pandey	Reviews on Environmental Health (accepted, published online) IF 3.458	2020
15	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 https://doi.org/10.1016/j.chemosphere.2020.127175 IF 7.086	2020

15	Rhizobacterial community of <i>Jatropha curcas</i> associated with pyrene biodegradation by consortium of PAH-degrading bacteria	L. Singha, P., Pandey, P.,	Applied Soil Ecology 155: 103685 https://doi.org/10.1016/j.apsoil.2020.103685 . IF 4.046	2020
16	Rhizosphere assisted biodegradation of benzo(a)pyrene by cadmium resistant plant probiotic <i>Serratia marcescens</i> S2I7, and its genomic traits.	Kotoky R, Pandey P.	Scientific Reports. 10:5279. https://doi.org/10.1038/s41598-020-62285-4 IF 4.379	2020
17	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 https://doi.org/10.1007/s42398-020-00106-0	2020
18	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 (accepted, published online) doi.org/10.1002/aoc.5597 IF 3.14	2020
19	Distinctive features gleaned from the comparative genomes analysis of clinical and non-clinical isolates of <i>Klebsiella pneumoniae</i> .	Rajkumari R, Chakraborty S, Pandey P.	Bioinformatics 16(3): 256-268. DOI: 10.6026/97320630016256	2020
20	Linking gut microbiota with human diseases.	Vandana UK, Barlaskar NH, Md. 9Gulzar AB, Laskar IH, Kumar D, Paul P, Pandey P, Mazumder P.B.	Bioinformatics 16(2):196-208. DOI: 10.6026/97320630016196	2020
21	Rhizosphere mediated biodegradation of benzo(A)pyrene by surfactin producing soil bacilli applied through <i>Melia azadirachta</i> rhizosphere,	Rhithu Kotoky & Piyush Pandey	International Journal of Phytoremediation 22: 363-372 IF 2.528	2020
22	Cadmium resistant plant growth promoting rhizobacteria <i>Serratia marcescens</i> 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
23	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

24	AcrAB-TolC efflux pump system plays a role in carbapenem non-susceptibility in <i>Escherichia coli</i> .	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 2.989	2019
25	An array of multiplex PCR assays for detection of staphylococcal chromosomal cassette <i>mec</i> (SCC <i>mec</i>) types among staphylococcal isolates.	Bhowmik D , Das BJ, Pandey P, Chetri S, Chanda DD , Bhattacharjee A.	Journal of Microbiological Methods. 166, 105733 https://doi.org/10.1016/j.mimet.2019.105733 IF 1.707	2019
26	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 6.291	2018
27	Draft Genome Sequence of <i>Bacillus subtilis</i> Strain FB6-3, Isolated from Fermented Bamboo Shoot.	Khunjan O., Pandey P.	Microbiology Resource Announcement. e01319-18.	2018
28	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>Solanum tuberosum</i> L.).	Devi A. R., Sharma G. D., Majumder P. B., Pandey P.	Biocatalyst and Agricultural Biotechnology. 16: 614-624. IF 2.14	2018
29	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
30	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
31	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 6.789	2018
32	Genomic insights of aromatic hydrocarbon degrading <i>Klebsiella pneumoniae</i> AWD5 with plant growth promoting attributes: a paradigm of soil isolate with elements of biodegradation.	Rajkumari J., Singha L.P., Pandey P.	3 Biotech. 8, 118. IF 2.45	2018

33	Shape dependent physical mutilation and lethal effects of silver nanoparticles on bacteria.	Acharya D., Singha K.M., Pandey P., Mohanta B., Rajkumari J., Singha L.P.	Scientific Reports. 8:201. IF 4.379	2018
34	Rhizosphere mediated nutrient management in <i>Allium hookeri</i> Thwaites by using phosphate solubilizing rhizobacteria and tricalcium phosphate amended soil.	Kshetri, L., Pandey, P., Sharma, G. D.	Journal of Plant Interactions, 13:256-269 IF 2.992	2018
35	Fermentation and Process Optimization of <i>Soibum</i> - A traditional Food of Manipur India, using <i>Serratia</i> sp..	Khunjan O., Pandey P., Sharma G. D.	Climate Change and Environmental Sustainability. 6(2): 127-138.	2018
36	<i>Exiguobacterium aurantiacum</i> mediated fermentation of bamboo shoot and process optimization for <i>Soibum</i> 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
37	The endophytesymbiont- <i>Pseudomonas aeruginosa</i> stimulates the antioxidant activity and growth of <i>Achyranthes aspera</i> L..	Devi K.A., Pandey G., Rawat A.K.S., Sharma G.D., Pandey P.	Frontiers in Microbiology, 8:1897. IF 5.64	2017
38	Solubilization of Inorganic Phosphate by Rhizobacteria of <i>Allium hookeri</i> 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
39	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
40	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.	2017
41	Draft genome sequence <i>Alcaligenes faecalis</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
42	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
43	Draft genome sequence <i>Pseudomonas fragi</i> DBC with ability to degrade high molecular weight polyaromatic hydrocarbons.	Singha L P., Kotoky R., Pandey P.	Genome Announcements. 5 (49) e01347-17.	2017
44	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 5.26	2017

45	Rhizosphere mediated biodegradation of 1,4-dichlorobenzene by plant growth promoting rhizobacteria of <i>Jatrophacurcas</i> .	Pant R., Pandey P., Kotoky R.	Ecological Engineering 94, 50–56. IF 4.035	2016
46	Glutathione and glutathione-S-transferase activity in <i>Jatrophacurcas</i> in association with pyrene degrader <i>Pseudomonas aeruginosa</i> PDB1 in rhizosphere, for alleviation of stress induced by polyaromatic hydrocarbon for effective rhizoremediation.	Singha LP, Pandey P.	Ecological Engineering 102, 422–432 IF 4.035	2017
47	Plant-microbe symbiosis as an instrument for the mobilization and removal of Heavy Metals from contaminated Soils – A realistic approach.	Kotoky, R., and Pandey, P.	Current Biotechnology 7(2), 71-79	2017
48	Glutathione and glutathione-S-transferase activity in <i>Jatrophacurcas</i> in association with pyrene degrader <i>Pseudomonas aeruginosa</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 4.035	2017
49	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
50	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
51	Draft genome sequence of <i>Klebsiella pneumoniae</i> AWD5.	Rajkumari J, Singha LP, Pandey P.	Genome Announc 5:e01531-16.	2017
52	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 1.098	2017
53	Plant Growth-Promoting Endophyte <i>Serratia marcescens</i> AL2-16 Enhances the Growth of <i>Achyranthes aspera</i> L., a Medicinal Plant.	Devi, K. A., Pandey, P., Sharma, G. D.	Hayati Journal of Biosciences. 23: 173-180 IF 1.45	2017
54	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 3.129	2016
55	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 1.05	2016.

56	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 4.035	2016.
57	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 5.26	2016.
58	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 3.129	2016.
59	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 IF 2.075	2016.
60	Application of <i>Bacillus</i> spp. for Sustainable Cultivation of Potato (<i>Solanumtuberosum</i> L.) and the Benefits. - Bacilli and Agrobiotechnology. Eds: Islam, T. M., Rahman, M. M., Pandey, P., Jha, C. K., Aeron, A.	Devi, A. R., Kotoky, R., Pandey, P., Sharma, G. D.	Springer Nature p. 185-211.	2016.
61	Characterization of plant growth promoting rhizobia from root nodule of <i>Crotolariapallida</i> grown in Assam,	Singha, B., Mazumder, P. B., Pandey, P.	Indian Journal of Biotechnology 15:10-16. IF 0.413	2015
62	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 2.719	2015.
63	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.
64	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 2.285	2014.
65	Colonization and antagonistic activity of ntomopathogenic <i>Aspergillus</i> sp. against tea termite (<i>Microcerotermesbeesoni</i> Snyder).	Pandey, P., Singha, P., Singha, B.	Current Science. 105: 1216-1218 IF 0.756	2013.
66	Screening of Actinomycetes from earthworm castings for their antimicrobial activity and industrial enzyme.	Kumar., V., Bharti, A., Bisht, G. S., Negi, Y.	Brazilian Journal of Microbiology. 43: 205-214. IF 2.719	2012.

		K., Gusain, O.P. and Pandey, P.		
67	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 Microbiology 52: 197-202. IF 0.9	2012
68	Multifarious activity of bioformulated <i>Pseudomonas fluorescens</i> PS1 and biocontrol of <i>Sclerotinia sclerotiorum</i> in Indian rapeseed (<i>Brassica campestris</i> L.).	Aeron, A., Dubey, R. C., Maheshwari, D. K., Pandey, P., Bajpai, V. K., Kang, S. C.	European Journal of Plant Pathology 131: 81-93. IF 1.732	2011.
69	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 2.719	2010.
70	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.	2010.
71	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.	2010.
72	Co-inoculation of urea and DAP tolerant <i>Sinorhizobium meliloti</i> and <i>Pseudomonas aeruginosa</i> integrated approach for growth enhancement of <i>Brassica juncea</i> .	Maheshwari, D. K., Kumar, S., Kumar, B. and Pandey, P.	Indian Journal of Microbiology 50:425-431.	2010.
73	Rhizosphere competent <i>P. aeruginosa</i> in the management of <i>Heterodera cajani</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. IF 1.992	2009.
74	Reduction in dose of chemical fertilizers and growth enhancement of sesame (<i>Sesamum indicum</i> L.) with application of rhizospheric competent <i>Pseudomonas aeruginosa</i> LES4.	Kumar, S., Pandey, P. and Maheshwari, D. K.	European Journal of Soil Biology. 45: 334-340. IF 2.285	2009.
75	. 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
76	Biological control of root rot fungus <i>Macrophomina phaseolina</i> & growth enhancement of <i>Pinus roxburghii</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 2.518	2008.
77	Assessment of bacterial indicators and physicochemical parameters to	Sood, A., Singh, K. D., Pandey, P. and Sharma, S.	Ecological Indicators. 8: 709-717.	2008.

	investigate pollution status of Gangetic river system of Uttarakhand (India).		IF 4.229	
78	Bioformulation of <i>Burkholderia</i> sp. MSSP with a multi-species consortium for growth promotion of <i>Cajanuscajan</i> .	Pandey, P. and Maheshwari, D. K.	Can. J. Microbiol 53: 213–222. IF 1.793	2007.
79	Studies on rhizospheric mycoflora of tea (<i>Camellia sinensis</i>): <i>In vitro</i> antagonism with dominant bacteria.	Singh, S., Sood, A., Sharma, S., Kumar, V., Singh, K. D. and Pandey, P.	Chin. J. Appl. Environ. Biol. 13: 357-3	2007.
80	Two-species microbial consortium for growth promotion of <i>Cajanus cajan</i> .	Pandey, P. and Maheshwari, D. K.	Current Science. 92: 1137-1142.	2007.
81	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.
82	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.	2006.
83	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 1.740	2005.
84	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.	2005.
85	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.	2004.
86	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.
87	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.
88	Production of cellulase – free thermostable xylanases by an isolated strain of <i>Aspergillusniger</i> PPI, utilizing various lignocellulosic wastes.	Pandey, P and Pandey A. K.	World J Microbiol. Biotechnol. 18: 281-283. IF 2.518	2002.
89	Studies on the biological treatment of digested distillery spent wash effluent	Gupta, S., Pandey, A. K., Sharma, N. C.	Proc. Nat. Acad. Sci. India. 71: 259-267.	2001.

using mutant strain of <i>Phanerochaete chrysosporium</i> .	Pandey, P. and Sharma, C. B.		
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Project Details

SR. NO	TITLE OF PROJECT	FUNDING AGENCY	FROM DATE	TO DATE	NO. OF SCIENTISTS UNDER THE PROJECT	TOTAL APPROVED COST	CURRENT STATUS OF PROJECT
1.	Rhizosphere Microbiome for Improving Symbiotic Nitrogen Fixation and yield of lentil in North Eastern States of India.	DBT	20.10.2016	19.04.2020	1 JRF	Duration 3 years, 36.76+24.76=61.52lacs	Complete
2.	Microbial roles in yield management of scented rice of north east India, component - Functional analysis of endophytic Microbiome for Growth and Antioxidant activity in Black-Rice of North-East India,	DBT	19.10.2016	18.04.2020	1 JRF	(Duration 3 years, 42.28+29.23=71.51lacs)	Complete
3.	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	31 st March 2017	Extension requested	2JRF 2 Traineeships 2 Studentships	(Duration 3 years, 131.068 lacs)	Ongoing
4.	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	20.03.2018	19.09.2019	1 JRF	(Duration 1 year, 08 lacs)	Completed
5.	Engineered Bioremediation Approaches for Onsite Treatment of Soil Contaminated with Crude Oil.	DBT	19.03.2019	18.03.2022	1 JRF 1 RA	(Duration 3 years, 84.182 lacs)	Ongoing
6.	Development of microbial inoculants to improve growth and productivity of Darjeeling and Assam Tea.	NHMS-MoEF	21.01.2019	20-01-22	1 JRF	(Duration 3 years,) 73.6064 lakhs	Ongoing
7.	Assessment of bacterial diversity in Gangetic river system of Uttarakhand using molecular approaches funded by Department of Science and Technology, Uttarakhand	UCOST	2007	2010	1 JRF	12.5 lakhs	Completed

	Council for Science and Technology, Dehradun.						
8.	Environmental Restoration using plant – microbe interaction: Rhizoremediation	IERP-MoEF	2008	2011	1 Project Fellow	4.95 lakhs	Completed
9.	Bioremediation of Polyaromatic Hydrocarbon contaminated soil using plant-microbe interaction in rhizosphere’.	DBT	06.09.2013	05.03.17	1 JRF	25.40 lakhs	Completed
10.	Molecular analysis of efflux pump mediated resistance in Gram negative bacilli’.	DBT	19.02.2014	18.08.18	1 JRF	87.65 lakhs	Completed
11.	Molecular insight into Staphylococcal chromosomal cassette mec (SCCmec) using an epidemiological marker for molecular diagnostic	DBT	02.08.2016	01.08.2019	1JRF	31.296 lakhs	Completed

Educational Details:

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

Other relevant informations

PhD Guidance: 12 (awarded), 05 (ongoing), 01 (submitted)

Book published: 03, Book series on - *Bacillus* in Agrobiolgy (Springer Nature) (Editor)

Book chapters:

SL. NO	TITLE OF THE BOOK	AUTHORS	PUBLICATION	YEAR
1.	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
2.	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.
3	Rhizoremediation of Polyaromatic hydrocarbon contaminated soil: Constrains and Future potential.	Pandey, P, L. Singha, P, Dutta, A.	In: Microbes in Action. Eds. Garg, N., Aeron, A. Nova Publishers.	2016.
4	Interactions in rhizosphere for bioremediation of heavy metals.	Nevita, T., Pandey, P., Maheshwari, D. K., Sood, A.	In: Bacteria in Agrobiolgy: Crop Productivity. Ed. Maheshwari, D. K. Springer-Verlag, Heidelberg, Germany. 439-461	2013.
5	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 Agrobiolgy: Plant Probiotics. Ed. Maheshwari, D. K. Springer-Verlag, Heidelberg, Germany. 185-200.	2012.
6	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.
7	Emerging Role of Plant Growth Promoting Rhizobacteria in Agricultural and Allied Industry.	Abhinav Aeron, Sandeep Kumar, Piyush Pandey, Dinesh Kumar Maheshwari.	In: Bacteria in Agrobiolgy: Crop Ecosystem. Ed. Maheshwari, D. K. Springer-Verlag, Heidelberg, Germany. 1-36.	2011.
8	Ecofriendly management of charcoal rot and Fusarium wilt diseases in Sesame (<i>Sesamumindicum</i> L.).	Sandeep Kumar, Abhinav Aeron, PiyushPandey, Dinesh Kumar Maheshwari.	In: Bacteria in Agrobiolgy: Crop Ecosystem. Ed. Maheshwari, D. K. Springer-Verlag, Heidelberg, Germany. 387-405.	2011.
9	Bacterial toxins: specially designed proteins for eukaryotic targets. Microbial toxins and toxigenic microbes (eds. Pandey, V. D. and Singh, S. K)	Pandey, P.	Publisher: Stadium Press (India) Pvt.Ltd.	2010.

10	Application of Fusaria in agricultural and industrial biotechnology. In: Biotechnological applications of microorganisms: A tecno-commercial approach. (eds. Maheshwari, D. K. and Dubey, R. C.)	Pandey, P., Saraf, M., Dubey, R. C. and Maheshwari, D. K.	I. K. International Publishing House. New Delhi. India. pp. 199-212.	2006.
11	Production of a pH stable and thermostable alkaline protease from <i>Pseudomonas</i> sp. HPA utilizing different substrates.	Pandey, A. K., Sahay, H. and Pandey, P.	In: <i>Zoology and Human Welfare</i> (Editor- Ashok Verma) University of Allahabad.	2004.