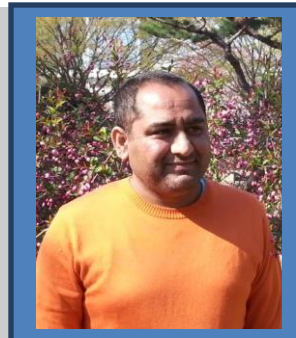


Name-----Dr. PANKAJ KUMAR ARORA
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Education Qualification

	Organization	Year of award
Undergraduate	MJP Rohilkhand University, Bareilly	2001
Post-graduation	MJP Rohilkhand University, Bareilly	2003
Ph.D.	Jawaharlal Nehru University, New Delhi	2011
Post-Doctoral Training	<ul style="list-style-type: none">• University of Hyderabad, Hyderabad• MJP Rohilkhand University, Bareilly• Yeungnam University, South Korea	2011 2013 2013

Professional Experience (In Years)

Teaching Experience: 05
Research Experience: 05

Areas of Research (Maximum Five Bullet Points)

- Environmental Microbiology & Biotechnology
- Microbial Genomics
- Metagenomics
- Bioinformatics

Research/Consultancy Grants

Title of Projects	Funding Agency	Duration (Specific Dates)	Total grant	Role (PI/CO-PI)
Development of bioremediation technologies for bioremediation of heavy metals and studies of bacterial diversity for industrial usage	DBT	2018-2023	1.03 Crore	PI
Metabolite profiling of degradation of chlorinated nitroaromatic compounds	UGC	2018-2021	10 Lakhs	PI

Publications

International

1. **Pankaj Kumar Arora***, Rupali Mishra, Rishabh Anand Omar, Raj Shekhar, Alok Srivastava, Sanjay Kumar Garg, Vijay Pal Singh (2021) Draft genome sequence data of a chromium reducing bacterium, *Bacillus licheniformis* strain KNP. **Data in Brief**, 106640.
2. **Pankaj Kumar Arora*** (2020) Bacilli-mediated degradation of xenobiotic compounds and heavy metals. **Frontiers in Bioengineering and Biotechnology** 8:1100.
3. Prem Chandra, Ranjan Singh, **Pankaj Kumar Arora*** (2020) Microbial lipases and their industrial applications: a comprehensive review. **Microbial Cell Factories**, 19: 1-42.
4. Rishabh Anand Omar, Nishith Verma, **Pankaj Kumar Arora*** (2020) Sequential desulfurization of thiol compounds containing liquid fuels: Adsorption over Ni-doped carbon beads followed by biodegradation using environmentally isolated *Bacillus zhangzhouensis*. **Fuel**, 1277:118208.
5. **Pankaj Kumar Arora***, Alok Srivastava, Sanjay Kumar Garg, Vijai Pal Singh (2018) Recent advances in degradation of chloronitrophenols. **Bioresource Technology**, 250: 902-909.
6. **Pankaj Kumar Arora***, Alok Srivastava, Vijay Pal Singh (2014) Degradation of 4-chloro-3-nitrophenol via a novel intermediate, 4-chlororesorcinol by *Pseudomonas* sp. JHN. **Scientific Reports**, 4:4475.
7. **Pankaj Kumar Arora***, Hanhong Bae (2015) Biodegradation of 4-chloroindole by *Exiguobacterium* sp. PMA. **Journal of Hazardous Materials**, 284:261-268.

8. **Pankaj Kumar Arora***, Alok Srivastava, Vijay Pal Singh (2014) Bacterial degradation of nitrophenols and their derivatives. **Journal of Hazardous Materials**, 266:42-59.
9. **Pankaj Kumar Arora*** (2015) Bacterial degradation of monocyclic aromatic amines. **Frontiers in Microbiology** 6:820.
10. **Pankaj Kumar Arora**, Hanhong Bae (2014) "Bacterial degradation of chlorophenols and their derivatives." **Microbial Cell Factories** 13:31.
11. **Pankaj Kumar Arora***, Hanhong Bae (2014) Biotransformation and chemotaxis of 4-chloro-2-nitrophenol by *Pseudomonas* sp. JHN. **Microbial Cell Factories** 13:10.
12. **Pankaj Kumar Arora***, Tapan Kumar Mohanta, Alok Srivastava, Hanhong Bae, Vijay Pal Singh (2014) Metabolic pathway for degradation of 2-chloro-4-aminophenol by *Arthrobacter* sp. SPG. **Microbial Cell Factories**, 13:164 .
13. **Pankaj Kumar Arora***, Ashutosh Sharma, Richa Mehta, Belle Damodara , Alok Srivastava , Vijay Pal Singh (2012) Metabolism of 4Chloro-2-Nitrophenol in a Gram positive bacterium, *Exiguobacterium* sp. PMA. **Microbial Cell Factories**, 11:150. .
14. **Pankaj Kumar Arora***, Ashutosh Shrama (2015) New metabolic pathway for degradation of 2-nitrobenzoate by *Arthrobacter* sp. SPG. **Frontiers in Microbiology** 6:551.
15. **Pankaj Kumar Arora***, Ch. Sasikala, Ch. Venkata Ramana (2012) Degradation of chlorinated nitroaromatic compounds. **Applied Microbiology and Biotechnology**, 93(6):2265-77.
16. **Pankaj Kumar Arora***, Rakesh Kumar Jain (2012) Metabolism of 2Chloro-4-Nitrophenol in a Gram negative bacterium, *Burkholderia* sp. RKJ 800. **PLOS ONE**, 7(6):e38676.
17. **Pankaj Kumar Arora*** (2012) Decolourization of 4-Chloro-2-Nitrophenol by a soil bacterium, *Bacillus subtilis* RKJ 700. **PLOS ONE**, 7(12):e52012.
18. Janmejy Pandey, Hermann J. Heipieper, Archana Chauhan, **Pankaj Kumar Arora**, Dhan Prakash, M. Takeo, Rakesh K. Jain (2011) Reductive dehalogenation mediated initiation of aerobic degradation of 2-chloro-4-nitrophenol (2C4NP) by *Burkholderia* sp. strain SJ98. **Applied Microbiology and Biotechnology**, 92:597-607.
19. Tikam Chand, **Pankaj Kumar Arora*** (2012) Evaluation of potential of molecular and physical techniques in studying biodeterioration. **Reviews in Environmental Science and Technology**, 11:71-104.
20. **Pankaj Kumar Arora**, Wenxin Shi (2010) Tools of bioinformatics in biodegradation. **Reviews in Environmental Science and Technology**, 9:211-213.

21. Tapan Kumar Mohanta, **Pankaj Kumar Arora**, Nibedita Mohanta, Pratap Parida and Hanhong Bae (2015) Identification of new members of the MAPK gene family in plants shows diverse conserved domains and novel activation loop variants. **BMC Genomics**, 16:58.
22. **Pankaj Kumar Arora***, Alok Srivastava, Vijay Pal Singh (2014) Novel degradation pathway of 4-chloro-2-aminophenol via 4-chlorocatechol in *Burkholderia* sp. RKJ 800.” **Environmental Science and Pollution Research**, 21: 2298-2304.
23. **Pankaj Kumar Arora***, Archana Chauhan, Bhawna Pant, Suresh Korpole, Shanugnm Mayilraj, Rakesh Kumar Jain (2011) *Chryseomicrobium imtechensae* gen. nov., sp. nov., a new member of the family Planococcaceae. **International Journal of Systematic and Evolutionary Microbiology**, 61:1859-64.
24. **Pankaj Kumar Arora***, Rakesh Kumar Jain (2012) Biotransformation of 4-chloro-2-nitrophenol into 5-chloro-2-methylbenzoxazole by a marine *Bacillus* sp. strain MW-1. **Biodegradation**, 23(2):325-31.
25. **Pankaj Kumar Arora**, Hanhong Bae (2014) Integration of bioinformatics to biodegradation. *Biological Procedures Online* 16:8.
26. **Pankaj Kumar Arora***, Rakesh Kumar Jain (2011) Pathway for degradation of 2-chloro-4-nitrophenol in *Arthrobacter* sp. *SJCon. Current Microbiology*, 63:568-73.
27. **Pankaj Kumar Arora***, Hanhong Bae (2014) Identification of new metabolites of bacterial transformation of indole by the Gas Chromatography-mass spectrometry and High performance Liquid chromatography. **International Journal of Analytical Chemistry**, 2014: 239641.
28. **Pankaj Kumar Arora*** (2013) *Staphylococcus lipolyticus* sp. nov., a new cold adapted lipaseproducing species. **Annals of Microbiology**, 63:913-922.
29. **Pankaj Kumar Arora***, Hanhong Bae (2014) Bacterial dehalogenases for aerobic degradation of chlorinated aromatic compounds. **Journal of Chemistry**, 2014: 157974.
30. **Pankaj Kumar Arora***, Hanhong Bae (2014) Toxicity and Microbial Degradation of Nitrobenzene, Monchloronitrobenzenes, Polynitrobenzenes, and Pentachloronitrobenzene. **Journal of Chemistry**, 2014: 265140.
31. **Pankaj Kumar Arora**, Mi-Jeong Jeong, and Hanhong Bae (2015) Chemotaxis Away from 4-Chloro-2-nitrophenol, 4-Nitrophenol, and 2,6-Dichloro-4-nitrophenol by *Bacillus subtilis* PA-2, **Journal of Chemistry**, 2015: 296231.
32. **Pankaj Kumar Arora***, Ashutosh Sharma, and Hanhong Bae (2015), Microbial degradation of Indole and Its Derivatives, **Journal of Chemistry**, 2015: 129159.

33. **Pankaj Kumar Arora***, Kartik Dhar, Rafael Alejandro Veloz García, Ashutosh Sharma (2015) Biotransformation of indole to indole-3methyl by *Lysinibacillus xylanilyticus* strain MA, **Journal of Chemistry**, 2015:425329.
34. **Pankaj Kumar Arora**, Manish Kumar, Archana Chauhan, Gajendra Pal Singh Raghava , Rakesh Kumar Jain (2009) OxDBase: a database of oxygenases involved in biodegradation. **BMC Research Notes**, 2:67.
35. **Pankaj Kumar Arora***, Rakesh Kumar Jain (2013) *Arthrobacter nitrophenolicus* sp. nov. a new 2-chloro-4-nitrophenol degrading bacterium isolated from contaminated soil. **3 Biotech** 3 (1), 29-32.
36. **Pankaj Kumar Arora**, Alok Srivastava, Vijay Pal Singh (2010) Application of monooxygenases in dehalogenation, desulfurization, denitrification and biotransformation of aromatic compounds. **Journal of Bioremediation and Biodegradation**, 1:11.
37. **Pankaj Kumar Arora*** (2012) Metabolism of para-nitrophenol in *Arthrobacter* sp. SPG. **E3 Journal of Environmental Science and Management**, 3:52-57.
38. Vimal Kumar Dubey, Kottakota Chandrasekhar, Alok Srivastava, Aminuddin, Vijai Pal Singh, Kartik Dhar, **Pankaj Kumar Arora*** (2015). Expression of coat protein gene of Cucumber mosaic virus (CMV-subgroup IA) *Gladiolus* isolate in *Nicotiana tabacum*. **Journal of Plant Interactions**. 10:296304.
39. **Pankaj Kumar Arora**, Alok Srivastava and Vijay Pal Singh (2016) Diversity of 4-chloro-2-nitrophenol-degrading bacteria in a waste water sample. **Journal of Chemistry**, 2016: 287375.
40. Ashok Kumar, Kartik Dhar, Shamsheer Singh Kanwar, **Pankaj Kumar Arora*** (2016) Lipase catalysis in organic solvents: Advantages and applications. **Biological Procedures Online** 18:2.

National

Book Chapters

Authored Books

Edited Books

- **Arora, P.K. ed., 2019. *Microbial Technology for the Welfare of Society*. Springer.**
- **Arora, P. K. (Ed.). (2019). *Microbial Metabolism of Xenobiotic Compounds*. Springer.**

- Arora, P. K. (2020). *Microbial Technology for Health and Environment*. Springer.

Patents

	Inventors	Title and Award/Application no.
Awarded		
Published		
Filed		

Research Supervision

	Completed	Ongoing
PG/M.Phil		
Ph.D		03
Post-Doctoral		

Honors, Recognition and Awards

- Young Botanist Award (M. S. Swaminathan Merit Certificate and Dr. Bahadur Singh Gold Medal) of the Indian Botanical Society for the year 2012.
- Dr. Y. S. Murthy Medal (2015) for Young Scientist by the Indian Botanical Society.
- Editorial Board Member for *Scientific Reports* and *Data in Brief*.
- Associate Editor for *Frontiers in Microbiology*.
- Academic Editor for *PLOS ONE*
- DBT-Ramalingaswami Fellowship (2018)

Membership of Professional Bodies

* Indian Botanical Society.

*Society for environmental Sustainability.

Seminar/Conference/Symposia /Workshops Organised

Countries Visited

* **South Korea**

**Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia
/Workshops: NA**

Additional Information (If Any): NA