

# CURRICULUM VITAE

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**PANKAJ KUMAR ARORA, PhD**  
Assistant Professor,  
Department of Environmental Microbiology,  
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## Research interests:

- **Bacterial Taxonomy,**
- **Environmental Chemistry,**
- **Environmental Biotechnology**
- **Microbiology**

## International Recognitions:

- **Editorial Board Member for *Scientific Reports*, a Journal of Nature Publishing Group.**
- **Associate Editor for *Frontiers in Microbiology*.**
- **Academic Editor for *PLOS ONE*.**

## National 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 for contribution in Microbiology.**
- **Awarded Ramalingaswami Re-entry Fellowship for 2016-2017.**
- **Selected as an Assistant Professor under *UGC-Faculty Recharge***

Program in Earth Sciences in year 2017.

### **Research and Teaching Experiences**

- Working as an **Assistant Professor (Environmental Microbiology)** at BBAU, Lucknow from 21<sup>st</sup> November 2017.
- Worked as **Young Scientist (Principal Investigator)** at MJP Rohilkhand University, Bareilly from 1<sup>st</sup> March 2016 to 20<sup>th</sup> November 2017.
- Worked as an **Assistant Professor** at Yeungnam University, South Korea from 1<sup>st</sup> March 2014 to 29<sup>th</sup> February 2016.
- Worked as a **Post-Doctoral Fellow** at Yeungnam University, South Korea from 11<sup>th</sup> November 2013 to 28<sup>th</sup> February 2014.
- Worked as **Dr. D.S. Kothari Post Doctoral Fellow** from 1<sup>st</sup> August 2011 to 10<sup>th</sup> November 2013.
- Worked as **Research Fellow** from 8<sup>th</sup> August 2005 to 31<sup>st</sup> August 2010 at the CSIR- Institute of Microbial Technology, Chandigarh, India under supervision of **Dr. Rakesh Kumar Jain**.

### **Research Publications**

Number of Publications: **36**

Total cumulative impact factor: **96.307**

H index: **16**

#### **\*Corresponding Author**

1. **Pankaj Kumar Arora\***, Alok Srivastava, Sanjay Kumar Garg, Vijay Pal Singh (2018) Recent advances in degradation of chloronitrophenols. Bioresource Technology 250C, 902-909. (**Impact Factor 5.651**).
2. **Pankaj Kumar Arora\***, Hanhong Bae (2015) Biodegradation of 4-

chloroindole by *Exiguobacterium* sp. PMA. **Journal of Hazardous Materials**, 284, 261-268. (Impact Factor 6.065).

3. **Pankaj Kumar Arora\***, Alok Srivastava, Vijay Pal Singh (2014) Bacterial degradation of nitrophenols and their derivatives. **Journal of Hazardous Materials**, 266, 42-59. (Impact Factor 6.065).
4. **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. (Impact Factor 4.259).
5. **Pankaj Kumar Arora\*** (2015) Bacterial degradation of monocyclic aromatic amines. **Frontiers in Microbiology** 6:820. (Impact Factor 4.076).
6. **Pankaj Kumar Arora**, Hanhong Bae (2014) Bacterial degradation of chlorophenols and their derivatives. **Microbial Cell Factories** 13 (1), 31. (Impact Factor 3.681).
7. **Pankaj Kumar Arora\***, Hanhong Bae (2014) Biotransformation and chemotaxis of 4-chloro-2-nitrophenol by *Pseudomonas* sp. JHN. **Microbial Cell Factories** 13, 10. (Impact Factor 3.681).
8. **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**, 2014, 13:164. (Impact Factor 3.681).
9. **Pankaj Kumar Arora\***, Ashutosh Sharma, Richa Mehta, Belle Damodara , Alok Srivastava , Vijay Pal Singh (2012) Metabolism of 4Chloro-2-Nitrophenol in a Grampositive bacterium, *Exiguobacterium* sp. PMA. **Microbial Cell Factories**, 11:150. (Impact Factor 3.681).
10. **Pankaj Kumar Arora\***, Ashutosh Shrama (2015) New metabolic pathway for degradation of 2-nitrobenzoate by *Arthrobacter* sp. SPG. **Frontiers in Microbiology** 6:551. (Impact Factor 4.076).
11. **Pankaj Kumar Arora\***, Ch. Sasikala, Ch. Venkata Ramana (2012) Degradation of chlorinated nitroaromatic compounds. **Applied Microbiology and Biotechnology**, 93(6):2265-77. (Impact Factor 3.420).

12. **Pankaj Kumar Arora\***, Rakesh Kumar Jain (2012) Metabolism of 2-Chloro-4-Nitrophenol in a Gram negative bacterium, *Burkholderia* sp. RKJ 800. **PLOS ONE**, 7(6):e38676. (Impact Factor 2.806)
13. **Pankaj Kumar Arora\*** (2012) Decolourization of 4-Chloro-2-Nitrophenol by a soil bacterium, *Bacillus subtilis* RKJ 700. **PLOS ONE**, 7(12):e52012. (Impact Factor 2.806).
14. 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. (Impact Factor 3.420).
15. 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. (Impact factor: 4.400).
16. **Pankaj Kumar Arora**, Wenxin Shi (2010) Tools of bioinformatics in biodegradation. **Reviews in Environmental Science and Technology**, 9:211-213. (Impact factor: 4.400)
17. 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. (Impact Factor 3.729).
18. **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 (3), 2298-2304. (Impact Factor 2.741).
19. **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. (Impact Factor 2.134).
20. **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. (**Impact Factor 2.018**).
21. **Pankaj Kumar Arora**, Hanhong Bae (2014) Integration of bioinformatics to biodegradation. *Biological Procedures Online* 16:8. (**Impact factor: 2.042**).
  22. **Pankaj Kumar Arora\***, Rakesh Kumar Jain (2011) Pathway for degradation of 2chloro-4-nitrophenol in *Arthrobacter* sp. *SJCon. Current Microbiology*, 63:568-73. (**Impact Factor 1.322**).
  23. **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**, vol. 2014, Article ID 239641, 5 pages. (**Impact Factor 0.901**).
  24. **Pankaj Kumar Arora\*** (2013) *Staphylococcus lipolyticus* sp. nov., a new cold adapted lipaseproducing species. **Annals of Microbiology**, 63, 913-922 (**Impact Factor 1.122**).
  25. **Pankaj Kumar Arora\***, Hanhong Bae (2014) Bacterial dehalogenases for aerobic degradation of chlorinated aromatic compounds. **Journal of Chemistry**, vol. 2014, Article Id 157974, 10 pages. (**Impact Factor 1.300**)
  26. **Pankaj Kumar Arora\***, Hanhong Bae (2014) Toxicity and Microbial Degradation of Nitrobenzene, Monchloronitrobenzenes, Polynitrobenzenes, and Pentachloronitrobenzene. **Journal of Chemistry**, vol. 2014, Article Id 265140, (**Impact Factor 1.300**).
  27. **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**, vol. 2015, Article ID 296231, 4 pages. (**Impact Factor 1.300**).
  28. **Pankaj Kumar Arora\***, Ashutosh Sharma, and Hanhong Bae (2015), Microbial degradation of Indole and Its Derivatives, **Journal of Chemistry**, vol. 2015, Article ID 129159, 13 pages, 2015. (**Impact Factor 1.300**).
  29. **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**, vol. 2015, Article ID 425329. (**Impact Factor 1.300**).

30. **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.
31. **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 (**Impact Factor 1.361**).
32. **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.
33. **Pankaj Kumar Arora\*** (2012) Metabolism of para-nitrophenol in *Arthrobacter* sp. SPG. *E3 Journal of Environmental Science and Management*, 3:52-57.
34. 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 (**Impact Factor 1.628**).
35. **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*, vol. 2016, Article ID 287375 (**Impact factor 1.300**).
36. Ashok Kumar, Kartik Dhar, Shamsheer Singh Kanwar, **Pankaj Kumar Arora\*** (2016) Lipase catalysis in organic solvents: Advantages and applications. **Biological Procedures Online** 18:2 (**Impact factor: 2.042**).