

# CURRICULUM VITAE

Of

## Dr. Pradeep Kumar Sharma

M.Sc. (Ag.), M.Phil., Ph.D., N.E.T., BOYSCAST Fellowship Awardee in Scotland, U.K.

**1. Present Designation & Address** : Reader, Department of Genetics & Plant Breeding

Head, Department of Microbiology,  
Ch. Charan Singh University, Meerut-250004  
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**2. Date of Birth** : 24.07.1967

**3. Sex** : M

**4. Category** : General

**5. Academic Qualifications** : Throughout first class

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Exam.	Year	Board/Univ.	Division	Specialization
High School	1982	U.P. Board, Allahabad	First	Agriculture stream
Intermediate	1984	-do-	First	-do-
B.Sc. (Ag)	1987	Meerut University	First	Agriculture group
M.Sc. (Ag)	1989	-do-	First	Genetics & Plant Breeding
<b>M.Phil.</b>	1990	-do-	First	-do-
<b>Ph.D.</b>	1995	-do-	-	-do-
<b>N.E.T.</b>	1996	ASRB, ICAR, New Delhi	-	Plant Breeding

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**6. Positions Held/ Work Experience :**

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S. No.	Position Held	Employer	Period	Nature of Work
1.	Part-time Lecturer	Ch. Charan Singh University, Meerut	3.11.95 to 31.12.97	PG teaching & research
2.	Research Associate	-do-	1.1.98 to 9.1.99	Research/teaching
3.	Lecturer	-do-	9.1.99 to 19.3.2002	PG teaching & research
4.	Reader	-do-	19.3.2002 to date	PG teaching & research
5.	Head, Dept. of Microbiology	-do-	29.8.2006 to date	PG teaching & research Academic administration

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**5. Area of Specialization/Experience :** Molecular Genetics, Genetic Engineering/Biotechnology, Microbiology

**6. Teaching Experience : 13 years**

13 years experience in PG teaching, including more than 6 years and 3 months as Reader, and taught courses on Genetics, Biotechnology, Molecular Genetics, Genetics, Plant Biochemistry and Physiology, Plant Breeding, Statistical Methods, Computer & Bioinformatics, and Microbiology at M.Sc. and M.Phil. level.

**7. Research Experience : About 17 years**

- (a) As M.Sc., M.Phil. and Ph.D. student in the subject of plant breeding and genetics.
- (b) As University teacher since Nov. 1995.
- (c) As CSIR-ES Research Associate for one year in the area of crop biotechnology.
- (d) As BOYSCAST Fellow in Scotland, U.K. from March 2003 to March 2004, in the area of crop biotechnology.

**8. Experience of Guiding Research :**

(a) **At Doctoral (PhD.) Level :**

- (i) Awarded 02
- (ii) Submitted 02
- (iii) 08 Ph.D. students are registered and working.

(b) **At M.Phil. Level :**

21 M.Phil. projects completed : 09 in the subject of Genetics and Plant Breeding, and 13 in the subject of Microbiology.

(c) **At M.Sc. Level :**

03 M.Sc. theses supervised.

**9. Conferences/Workshops/Symposia Attended :**

- (i) National 03
- (ii) International 08

**10. Membership of Scientific Bodies :**

- 1. Association of Microbiologists of India (AMI)
- 2. Indian Botanical Society
- 3. Current Science Association

**11. Publications : (Full papers/articles 13 + Abstracts 19)**

- 1. **Sharma, P.K.**, Garg, D.K. and Sharma, P.C. 1996. Genetic characterization of some quantitative characters in bread wheat (*Triticum aestivum* L.). *Ind. J. Genet.* **56**: 281-284.
- 2. **Sharma, P.K.**, Gupta, P.K. and Govila, O.P. 1998. AMMI analysis of a pearl millet yield trial. *Ind. J. Genet.* **58**: 183-192.
- 3. **Sharma, P.K.**, Gupta, P.K. and Balyan, H.S. 1998. Genetic diversity in a large collection of wheat (*Triticum sp.*). *Ind. J. Genet.* **58**: 271-278.

4. **Sharma, P.K.** 1998. Character association analysis in wheat. *J. Cytol. Genet.* 33: 11-15.
5. Gupta, P.K. , Balyan, H.S., **Sharma, P.K.**, Roy, J.K., Singh, T., and Lohia, R.S. 1999. Studies on rDNA polymorphism, genetic diversity, GA-insensitive dwarfing genes, breeding methods, character association and gene effects in wheat. *Annual Wheat Newsletter* 45: 82-87.
6. Gupta, P.K. , **Sharma, P.K.**, Balyan, H.S., Roy, J.K., Sharma, S. Beharav, A. and Nevo, E. 2002. Polymorphism at rDNA loci in barley and its relation with climatic variables. *Theor. Appl. Genet.* 104: 473-481.
7. **Sharma, P.K.**, Kumar, P. and Kumar, N. 2004. Character association analysis in different height groups of wheat *Triticum aestivum* L.). *Progressive Agriculture* 4(2): 167-171.
8. Goel, P., Swati., **Sharma, P.K.** and Srivastva, K. 2005. Genetic divergence in an elite germplasm collection of wheat (*Triticum spp.*) *Crop Improve.* **32(2)**: 114-120.
9. Tyagi, R.K., **Sharma, P.K.**, Vyas, S.P. and Mehta, A. 2008. Various carrier system(s)---mediated genetic vaccination strategies against malaria. *Expert Review of Vaccines* 7(4) : 499-520.
10. Tyagi, R.K., Sharad Mangal, Neeraj Garg and **Sharma, P.K.** 2009. RNA-based immunotherapy of cancer : role and therapeutic implications of dendritic cells. *Expert Review of Anti Cancer Therapy* 9(1) : 1-18
11. Ram Prasad, Rangaswamy Narayan, Rajni Malla, **P.K. Sharma**, and Ajit Varma. 2008. The RNA World. In : *Molecular Biotechnology*, eds. A. Chauhan, N. Varma and A. Varma. I.K. International, New Delhi (in press)
12. Shukla, L., **Sharma, P.K.**, Tyagi, S.P., and Singh, P. 2008. Jaivik Kheti---Uttam Anna, swastha mrada avam swachcha paryavaran ka ek sarvottam vikalp. *Unnat Kheti* (accepted)
13. Shukla, L., **Sharma, P.K.**, Tyagi, S.P., and Sharma M. 2008. Mahilaon ka vikas men yogdan. *Unnat Kheti* (accepted)

#### **ABSTRACTS :**

14. Tiwari, A.K., Snehi, S.K., Rao, G.P., Raj, S.K. and **Sharma, P.K.** 2007. Begomoviruses : a major problem for cucurbitaceous crops in Eastern Uttar Pradesh. ICVT07, Indian Virological Society, IARI, New Delhi. Poster presentation (P 111) p 289.
15. Tiwari, A.K., Snehi, S.K., Rao, G.P., **Sharma, P.K.** and Raj, S.K. 2007. Begomoviruses are the major viruses affecting cucurbitaceous crops of Eastern U.P., India. 9<sup>th</sup> International Congress of Plant Pathology (ICPP 2008), August 24-29, 2008, Torino Italy (Abstract).
16. Kumar, P. and **Sharma, P.K.** 2007. Gene effects for yield components in a set of eight crosses of bread wheat. A poster presented in BARC Golden Jubilee and DAE-BRNS

Life Science Symposium on Trends in Research And Technologies in Agriculture and Food Science. December 18-20, 2006 at BARC, Mumbai, p 108 (Abstract).

17. **Sharma, P.K.** and Garg DK. 1993. Inheritance of some quantitative characters in wheat (*Triticum aestivum* L.). 80<sup>th</sup> Session of Indian Science Congress Association, Jan 3-8, Goa.
18. Arya A.K., Kumar, A., Reena, Bala, M. and **Sharma, P.K.** 2008. Low dose ionizing radiation induced mitochondrial changes : contribution in radioadaptive response and modulation by herbal preparation of *Hippophae rhamnoides* in *Saccharomyces cerevisiae*. In : Indo-US Workshop on Mitochondrial Research and Medicine 12-14 November, Manipal University, Manipal.
19. Rekha Sharma, Gaurav Guglani, D. C. Sharma and **P. K. Sharma**. 2008. Isolation and Screening of Bio-surfactant Producers. Poster presentation. In : 49<sup>th</sup> Annual Conference/ International Symposium on Microbial Biotechnology : Diversity, Genomics and Metagenomics, 18-20, November, University of Delhi, Delhi. IM 321, p 209.
20. Rekha Sharma, S.K. Sharma, D. C. Sharma and P. K. Sharma. 2008. Development of Simple, Rapid, Cheap and Sensitive Method for Measuring Surface Tension of Liquids. Poster presentation. In : 49<sup>th</sup> Annual Conference/International Symposium on Microbial Biotechnology : Diversity, Genomics and Metagenomics, 18-20, November, University of Delhi, Delhi. MD 83, p 60.
21. Shalu Singh, Avneesh Kumar, D. C. Sharma and P. K. Sharma. 2008. Isolation and Characterization of Phytase Producers from Soil. Poster presentation. In : 49<sup>th</sup> Annual Conference : International Symposium on Microbial Biotechnology : Diversity, Genomics and Metagenomics, 18-20, November, University of Delhi, Delhi.
22. Pratiksha Singh, Jyoti Yadav, D. C. Sharma and P. K. Sharma. 2008. Assessment of Water Born Pathogens in Potable Water of Meerut (U.P) Region. Poster presentation. In : 49<sup>th</sup> Annual Conference : International Symposium on Microbial Biotechnology : Diversity, Genomics and Metagenomics, 18-20, November, University of Delhi, Delhi.. MD 84, p 60.
23. Manasvi Arora, Sachin Kumar Sharma, Gaurav Guglani, Saima Khan, Preeti Rani, Nikhil Chauhan, Lalit Kr. Chaurasia, Sumit Pal, Tanveer Ahmed, Kanchan Vishnoi, Garima Pundir, Amita, Rekha Sharma, P.K. Sharma and D.C. Sharma. 2008. Salt! Think again. Poster presentation. In : 49<sup>th</sup> Annual Conference : International Symposium on Microbial Biotechnology : Diversity, Genomics and Metagenomics, 18-20, November, University of Delhi, Delhi. AM 524, p 345.
24. D.C. Sharma, Rekha Sharma, Chavvi Sharma, Rashmi Singh, Irfan Hussain, Anil Kumar, Shalu Singh, Piyush Jaiswal, P.K. Sharma. 2008. Delayed Postoperative Surgical Site Infection: Investigation of Causative Agent and its Source. Poster presentation. In : 49<sup>th</sup> Annual Conference : International Symposium on Microbial Biotechnology : Diversity, Genomics and Metagenomics, 18-20, November, University of Delhi, Delhi. MV 418, p 264.

25. Shahi, SK, Baliyan A and Sharma PK. (2008). Antibacterial activity of *Punica granatum* epicarp extracts against pathogenic bacteria. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.
26. Shahi, SK, Vardhan H and Sharma PK (2008). Studies on various factors affecting the growth of *Trichoderma* and antagonism to Fusarial wilt pathogens. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India
27. Singh P, Shahi, SK, Sharma PK and Shukla L (2008). Antibacterial efficacy of some plant extract against *Xanthomonas sp.* Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.
28. Kumar A, Shahi, SK Sharma PK, Prakash D and Pabbi S (2008). Studies for the extraction of cyanobacterial lipids for utilization as biofuel. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.
29. Shahi, SK, Sharma E, Mukharjee S, Sharma PK, Upreti DK and Dikshit A. (2008). Isolation, cultivation and antimicrobial activity of lichen forming fungus. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.
30. Shahi, SK, Singh S, Chaudhary P, Swati and Sharma PK. (2008). Isolation of deteriorating fungi from infected fruits and their control through plant metabolites. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.
31. Shahi, SK, Kumar J, Prakash D and Sharma PK. (2008). Isolation of dental pathogens from patients and their inhibition through plant metabolites. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.
32. Shahi, SK, Madhumita and Sharma PK. (2008). Study of various factors affecting the growth of *Pleurotus sajor caju* and their use as bioremediation of diesel contaminated soil. Proc. International Symposium on Plant Biology and Environment: changing Scenario, Dec. 17 – 19, 2008, Allahabad, India.

## **12. Administrative Assignments :**

- (i) Assistant Warden, Boys Hostels (April 6, 2000 to March 25, 2003)
- (ii) University Security-Incharge (September 9, 2001 to March 2003)
- (iii) In-charge Day Care Centre (since 2002-March 2003)
- (iv) Assistant Proctor (April 19, 2002 to March 25, 2003)
- (v) Warden, VSMP Hostel (17.4.2006 continue)
- (vi) Head of Department of Microbiology and Coordinator since 29.8.2006.
- (vii) Worked as Assistant Controller of Evaluation
- (viii) Observer/Superintendent in University examinations.
- (ix) Member, Executive Council of the CCS University, Meerut since 16.7.2008

## **13. Academic Assignments :**

- (i) Coordinator, Institute of Legal Studies (26.8.2006 to 23.12.2006)
- (ii) HoD incharge, Department of Microbiology (29.8.2006 continue)
- (iii) Coordinator, Bioinformatics, Applied Microbiology and Medical Microbiology (29.8.2006 continue)
- (iv) Member of University Board of Studies in Microbiology and Bioinformatics
- (v) Member University Academic Council
- (vi) Expert member on the Selection Committees for Microbiology/Bioinformatics / Biotechnology
- (vii) Practical examiner and paper setter for M.Sc./B.Sc./M.Phil.

#### **14. Organization/Coordination of Academic Activities :**

- (i) Worked as member of Editorial Board, "The University Bulletin-2002", Ch. Charan Singh University, Meerut
- (ii) Worked as member, B.Tech. Counselling Committee 2002-03, Ch. Charan Singh University Campus, Meerut
- (iii) Delivered lectures in UGC sponsored Refresher Courses.
- (iv) Worked as a 'Resource Person' in a DST sponsored "Contact Program" for training students in biotechnology.
- (v) Review of papers from Indian J. Genet.
- (vi) Participated in BoS of to prepare syllabus for B.Sc. Bioinformatics
- (vii) Participated in BoS of Microbiology, Biotechnology and Bioinformatics)
- (viii) Organized and participated in a Symposium on "Molecular Basis of Plant Breeding" 26-28 February, 2007, (under UGC-SAP Scheme), Department of Genetics and Plant Breeding, CCS University, Meerut.

**(P. K. Sharma)**