

CURRICULUM VITAE
Of
Dr. Pradeep Kumar Sharma

1. Present Designation : Professor
2. Affiliation/address : Department of Genetics and Breeding, Ch. Charan Singh University,
Meerut-250004
3. Email : pks264@rediffmail.com
4. Academic Qualifications : M.Sc. Ag., M.Phil., Ph.D. & N.E.T. in Genetics and Plant Breeding
(through out first class)

5. Academic positions held :

- 5.1. Professor (Since March 2010 to date)
- 5.2. Associate Professor
- 5.3. Reader
- 5.4. Assistant Professor/Lecturer, R.A. and Part-time lecturer
(Total teaching and research experience as on 31 Dec. 2019 : > 24 years)

6. Academic administrative positions held :

- 6.1. Dean, Faculty of Agriculture
- 6.2. Head of Department
- 6.3. Chief Warden (continuing)
- 6.4. Warden
- 6.5. Convener of Research Degree Committee (RDC)
- 6.6. Convener of Board of Studies (BoS)
- 6.7. Member of University Executive Council
- 6.8. Member of University Academic Council (continuing)
- 6.9. Member of University Examination Committee
- 6.10. Convener/member of Departmental Committee (continuing)

7. Other assignments undertaken :

- 7.1. Coordinator of Evaluation
- 7.2. Senior Superintendent of examinations of University Teaching Departments
- 7.3. Member of Institutional Ethical Committee
- 7.4. Member of Inspection Panels for granting affiliation to colleges
- 7.5. Member of Selection Committees of Universities/Institutes and colleges
- 7.6. Coordinator of Scrutiny of evaluated answer books of University examinations
- 7.7. Member of various other committees

8. Research interests/ research work carried out:

- Characterization of genetic variability and genetic diversity in wheat; Study of gene effects for various economic/ agronomic traits; Selection of desirable and correlated traits, Study of effects of heat stress and selection of heat tolerant genotypes in

wheat; Study of heterosis; Analysis of multi-location yield trials and GE interaction; Study of allelic variation of ribosomal DNA loci and their role in adaptation and evolution of barley using RFLP markers,

- Transcriptomics and epigenomics studies to identify important genes controlling leaf rust resistance and other traits.
- Genomics and molecular breeding in wheat: Interval and association mapping of QTLs for various quantitative traits/ micronutrient traits; marker assisted assisted breeding for rust diseases, drought and quality/protein content traits.
- Bioinformatics (*in-silico* analyses) : Mining of orthologs for important traits, genome wide identification and analyses of gene families and candidate genes in wheat.

9. **Teaching subjects** : Plant Breeding, Biometrical genetics, Molecular genetics, Crop Biotechnology, Genomics and epigenomics, Molecular basis of quantitative inheritance, and Mutation research in crop improvement and genomics.

10. Students guided and supervised :

10.1. For Ph.D. degree	18
10.2. For M.Phil. degree	84
10.3. For M.Sc. Ag. degree	08

(Several Ph.D., M.Phil. and M.Sc. Ag. students are currently registered/working)

11. **Publications : 74 papers** (including 69 research papers in national and international journals of repute, 02 popular articles and 3 book chapters) and **45 abstracts** in national and international conference proceedings—up to 31 Dec. 2019.

12. Other academic activities :

- 12.1. Organized/attended many national and international conferences/symposia and workshops and delivered several invited lectures in Universities/institutes.
- 12.2. Revised syllabi of various degree programs and formulated new syllabi to start new degree programs.
- 12.3. Made several MoUs with national and international institutes
- 12.4. Handled four DBT and NASF, Gov. of India sponsored network research projects, out of which two are currently running.
- 12.5. Member/life member of several academic bodies, such as Indian Society of Genetics and Plant Breeding, Association of Microbiologists of India, Current Science Association, Member of Institutional Animal Ethical Committee (IAEC).

13. Awards/recognitions :

- 13.1. BOYSCAST Fellowship (DST, GOI) awarded for research-cum-advanced training at SCRI (now The James Hutton Institute), Dundee, Scotland, U.K.
- 13.2. Best poster award in a national symposium at IARI, New Delhi
- 13.3. Rashtriya Gaurav Award by India International Friendship Society, New Delhi

- 13.4. Several major grant-in-aid network research projects awarded by DBT and NASF, Govt. of India for research in wheat.

14. Ten important/recent research publications

- 14.1. Complex relationship between DNA methylation and gene expression due to *Lr28* in wheat-leaf rust pathosystem. *Molecular Biology Reports* 47(2): 1339–1360 (2020), Impact Factor 2.107
- 14.2. Large-scale stage-specific regulation of gene expression during host-pathogen interactions in CSP44 bread wheat carrying APR gene *Lr48*. *Functional Plant Biology* (Accepted, FP18336, CSIRO 2019) (2020) Impact Factor 2.491
- 14.3. H3K4/K9 acetylation and *Lr28*-mediated expression of six leaf rust responsive genes in wheat (*Triticum aestivum*). *Molecular Genetics and Genomics* 294(1): 227-241 (2019). Impact Factor 2.734
- 14.4. Further studies on sugar transporter (SWEET) genes in wheat (*Triticum aestivum* L.). *Molecular Biology Reports*: 46(2):2327-2353 (2019), Impact Factor 2.107
- 14.5. A study of transcriptome in leaf rust infected bread wheat involving seedling resistance gene *Lr28*. *Functional Plant Biology* 45(10) 1046-1064 (2018). Impact Factor 2.491
- 14.6. Genetics of Fe, Zn, β -carotene, GPC and yield traits in bread wheat (*Triticum aestivum* L.) using multi-locus and multi-trait GWAS and post-GWAS. *Euphytica* 214(11): 219. <https://doi.org/10.1007/s10681-018-2284-2>; Impact Factor 1.546
- 14.7. Transcription activator-like effector nucleases (TALENs): an efficient tool for plant genome editing. *Engg. Life Sci.*, 16, 330–337 (2016). Impact factor: 2.119
- 14.8. Heterosis for yield component traits and protein content in bread wheat under normal and heat-stress environment. *Cereal Research Communication* 42(1): 151-162 (2014). Impact Factor : 0.708
- 14.9. Tomato leaf curl Joydebpur virus: a monopartite begomovirus causing severe leaf curl in tomato in West Bengal. *Archives of Virology* 158(1) : 1-10 (2013). Impact Factor: 2.111
- 14.10. Functional characterization of bC1 gene of cotton leaf curl Multan betasatellite. *Virus Genes* 46(1): 111-119 (2013). Impact Factor: 1.845