

CURRICULUM VITAE

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| Name | : Dr. Pawan Saini |  |
| Designation | : Scientist-C (Plant Breeder) | |
| Department | : Mulberry Breeding and Genetics | |
| Institute | : Central Sericultural Research & Training Institute Central Silk Board, Pampore – 192 121, Jammu-Kashmir – 192 121 | |
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| Mobile | : +91-9466464668; +91-8168378389 | |
| Google Scholar | : https://scholar.google.com/citations?user=IL_XFnUAAAAJ&hl=en | |
| Research Gate | : https://www.researchgate.net/profile/Pawan-Saini-2 | |

ACADEMIC QUALIFICATIONS

| Degree | Name of the Institution/University | Year of Passing | % of marks |
|---|--|-----------------|------------|
| B.Sc. (Hons.) Agriculture | Chaudhary Charan Singh Haryana Agricultural University, Hisar - 125004 Haryana | 2010 | 74.00 |
| M. Sc. Agriculture (Plant Breeding and Genetics) | Kerala Agricultural University, Vellanikkara - 680656, Thrissur, Kerala | 2012 | 86.70 |
| Ph. D. Agriculture (Plant Breeding and Genetics) | Punjab Agricultural University, Ludhiana – 141004, Punjab | 2020 | 73.50 |

M.Sc. Thesis – Formation of core set in rice (*Oryza sativa* L.) short duration germplasm accessions.

Ph.D Thesis - Inheritance studies and mapping of yellow mosaic disease resistance in an interspecific cross of mungbean (*Vigna radiata* (L.) Wilczek) and urdbean (*Vigna mungo* (L.) Hepper).

AWARDS/DISTINCTION

- 1) All India **148th rank** in Plant Science in **AIEEA-JRF (Junior Research Fellowship) (PG)** conducted by ICAR during April, 2010.
- 2) Qualified **National Eligibility Test (NET)** conducted by **Agricultural Scientist Recruitment Board (ASRB), New Delhi** during February 24th, 2013.
- 3) Qualified **ICAR- SRF (Senior Research fellowship)** examination during April 21st, 2013.
- 4) Selected as **Scientist-B** at Central Silk Board (CSB), Ministry of Textiles, Govt. of India 20th October, 2015.
- 5) Member of Society for Bioinformatics and Biological Sciences.
- 6) Reviewer for Springer Nature International
- 7) Reviewer for Journal of Cereal Research, SAWBAR, IIWBR, Karnal

CORE COMPETENCIES

- 1) Practical knowledge of emasculation and crossing in rice (*Oryza sativa* L.), wheat (*Triticum aestivum* L.), mungbean (*Vigna radiata* L.) and mulberry (*Morus* spp.);
- 2) Hydroponics technique for mass screening of germplasm.
- 3) Experimental design and statistical analysis of designs – Randomized Block Design (RBD), Augmented Block Design (ABD)
- 4) Isolation of genomic DNA and protein, Agarose Gel Electrophoresis, Poly Acrylamide Gel Electrophoresis (PAGE), SDS-PAGE, Polymerase Chain Reaction (PCR), Marker Analysis
- 5) Basic techniques of Plant Tissue Culture (PTC) – Callus culture, Embryo Culture
- 6) Culturing bacteria in-vivo, Microscopy in plants

EXPERIENCE AND SKILLS

Research experience:

| Sl. No | Name of the Employee | Designation | Project | University/ Institutions | Period |
|--------|----------------------|---|--|--|--------------------------|
| 1. | Pawan Saini | Project Fellow | KSCSTE project- “Donor identification for iron toxicity tolerance in rice (<i>Oryza sativa</i> L.)” | Kerala Agricultural University, Thrissur | 14.09.2012 to 30.04.2013 |
| | | Scientist-B / Scientist-C | Acquisition, Conservation, Characterization and Utilization of mulberry germplasm under temperate conditions (PIB Pam-1) – Project Investigator | Central Sericultural Research & Training Institute, Central Silk Board, Pampore, J&K | 01.01.2016 to till date |
| | | | Development of superior mulberry varieties through controlled hybridization for North-West Indian states (PIB 3586) – Project Co-Investigator | | |
| | | Indo-Uzbekistan Collaborative Research Project for Improvement of Mulberry and Silkworm Breeding in Temperate regions of India and Uzbekistan (AIB03006CI) – Project Co- | | | |

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| | | | Investigator | | |
| | | | All India Coordinated Experimental Trials for Mulberry (AICEM Phase – IV) (PIE13001MI) – Co-Principal Investigator | | |
| | | | Evaluation of mulberry somatic hybrids PIE03012SI – Co-Investigator | | |
| | | | Mutational breeding in mulberry through <i>in vitro</i> mutagenesis – Co-Investigator | | |

COMPUTER SKILL

- 1) Basic computer Usage – Microsoft Office, PDF
- 2) Statistical operations : PowerCore, Augment 1, SPAR 1, SPSS
- 3) Diversity analysis tools : Darwin, NTsys pc 2.0
- 4) Linkage Mapping: Mapmaker, MapDisto, Powermaker
- 5) QTL Cartographer
- 6) Primer Designing tools: Primer 3

RESEARCH PUBLICATIONS

Research Papers : 09
Review Papers : 02
Conference/Seminars Abstracts : 22
Articles in magazine/proceedings : 07
Book Chapters : 25

RESEARCH INTEREST

Conventional as well as molecular research in Rice, Wheat, other field crops and tree breeding aiming biotic and abiotic stress resistance, quality improvement and yield enhancement through utilizing genetic, cytogenetic and genomic resources.