

Curriculum Vitae

Dr. RASHMI

Education

Education Qualification	Year of Completion	Name of University/ Institute/Board	% Marks/ OGPA/ /Division	Subjects
High School	2005	CBSE	Ist	Hindi English Mathematics Science Social Science
Intermediate	2007	CBSE	Ist	Physics Chemistry Biology English Geography
Graduate	2012	G. B.P.U.A&T. Pantnagar	Ist	Agriculture
Post Graduate	2014	G. B.P.U.A&T. Pantnagar	Ist	Genetics and Plant Breeding
Ph.D.	2018	G. B.P.U.A&T. Pantnagar	Ist	Major- Genetics and Plant Breeding Minor- Molecular Biology and Biotechnology/Plant Pathology
NET	2017	ASRB	Ist	Genetics and Plant Breeding
GRE	September 2012		304/340	English, Mathematics and Writing skills.
TOEFL	January 2013		98/120	English Proficiency Test

Technical skills

Genomic DNA Isolation and RNA isolation

Agarose Gel Electrophoresis

PCR

RT-PCR

Real time PCR

Plant Tissue Culture

Thin layer chromatography

Fluorescent *in situ* hybridization (FISH)

Trainings/Workshops/Conferences attended

S.No.	Seminar/Symposium /Workshop attended	Title of presentation	Place	Duration	India /Abroad
1.	12 th Asian Maize conference	Genotyping of LcyE and CRtRB1 loci in maize for enhancement of β carotene	Bangkok, Thailand	30 Oct to 1 Nov 2014	Abroad
2.	International Conference on Bio & Nano Technologies (ICBN-2018)	Estimation of nicking ability and heterosis in CMS based hybrids of <i>Brassica juncea</i> L.	GJ University, Hisar, Haryana	21-23 Feb 2018	India

3.	2 nd International Conference on Advances in Agricultural, Biological and Applied Sciences for Sustainable Future (ABAS-2018)	Influence of CMS cytoplasm on heterosis in high yielding varietal crosses in <i>Brassica juncea</i> L.	Shubharti University, Meerut, UP	20-22 Oct 2018	India
4.	4 th National Brassica conference	Influence of CMS cytoplasm oh hybrids performance in Indian mustard	CSAU&T, Kanpur, UP	1-3 Feb 2019	India
5.	3 rd National Brassica Conference	Genetic basis of heterosis for seed yield in Indian mustard	IARI, Delhi	16-18 Feb 2017	India
6.	राष्ट्रीय संगोष्ठी आधुनिक कृषि विज्ञान एवं प्रौद्योगिकी में समगतिशील विकास पर जलवायु परिवर्तन का प्रभाव	मक्का में आर्थिक ओज सहसम्बन्ध, पथगुणांक विप्लेषण एवं परिवर्तनशीलता मानकों का आकलन	GBPUA&T Pantnagar, UK	16-17 Dec 2016	India
7.	National Conference on Hill Agriculture in Perspective	Genetic study of Alternaria blight inheritance in <i>Brassica juncea</i> L.	GBPUA&T Pantnagar, UK	26-28 Feb 2016	India
8.	National Conference on Science of Omics in Agricultural productivity: Future perspective	Can kernel colour be a simple selection parameter in biofortification?	GBPUA&T Pantnagar	4-6 Mar 2014	India
9.	Workshop cum Training	Bioinformatics Techniques for Agriculture Data Analysis	IARI, New Delhi	11-13 Jan 2016	India
10.	Workshop	Innovations in Traditional Agriculture for Sustainable Humanity	GBPUA&T Pantnagar	29-30 Aug 2017	India
11.	Workshop cum Training	Role of Plant Tissue Culture Techniques in Crop Improvement	Uttarakhand Council for Bio-technology, Haldi	19-20 May 2016	India
12.	Symposium	Genomics based Next Generation Crop Improvement Approaches	IARI, New Delhi	11-12 Nov 2016	India
13.	Workshop cum seminar	Use of plasticulture in horticulture	Precision Farming Development Centre, GB Pant University	4-6 Jan 2013	India
14.	Training	Breeder Seed Production	GB Pant University of Agriculture and Technology	1-14 Dec 2011	India
15.	11 th UCOST	Study of inheritance of white rust resistance in <i>Brassica juncea</i> L.	Vigyan Dham, Dehradun	2-4 March 2017	India
16.	Training	Online Certificate course on 'Bioinformatics: it's applications in Life Sciences	Microbiologist Society, India (Reg No. MAH/4814/S AT)	May 2023: 16HRs)	Online

17.	Training	Early Career Maize Breeding Course	CIMMYT, Mexico	September 2021	Online
18.	Training	Hands-on biometrics training for plant breeding	CIMMYT, Mexico	September 2024	Online

Publications

Scientific Research Papers

1. Naveen Kumar, Jajati Keshari Nayak, Neeraj Pal, Santvana Tyagi, Raj Ratan Yadav, Pooja Joshi, **Rashmi Malik**, 2024. Development and characterization of an EMS-mutagenized population of wheat (*Triticum aestivum* L.) for agronomic trait variation and increased micronutrients content. **Cereal Research Communications**. doi.org/10.1007/s42976-024-00525-3.
2. Darshana Bisht, Naveen Kumar, Yogita Singh, **Rashmi Malik**, 2022. Effect of Stem structural characteristics and cell wall components related to stem lodging resistance in a newly identified mutant of hexaploidy wheat (*Triticum aestivum* L.). **Frontiers in Plant Science**. 1664-462X 1-11.
3. Binni Gupta, Aproov Tewari, Gohar Taj, Neeraj Pal, **Rashmi Malik**, Sundip Kumar, 2022. *In-silico* molecular modelling and docking studies on kinase inhibitors as potential anti-cancer target in HER2 associated breast cancer. **Letters in Organic Chemistry**. doi.10.2174/1570178619666220929114935.
4. Shivani Thakur, Upendra Kumar, **Rashmi Malik**, Darshana Bisht, Priyanka Balyan, Reyazul Rouf Mir and Sundip Kumar, 2021. Physical localization of 45S rDNA in *Cymbopogon* and the analysis of differential distribution of rDNA in homologous chromosomes of *Cymbogon winterianus*. **PLOS ONE**. doi.org/10.1371/journal.pone.0257115.
5. Mahak Tufchi, **Rashmi**, Arvind Kumar, D P Chaudhary, N K Singh and S L Jat, 2021. Breeding quality protein maize (*Zea mays* L.): Genetic and analytical perspective. **Indian Journal of Agriculture Sciences** 91(4): 495-502.
6. Mahak Tufchi, **Rashmi**, Neha Dahiya and N K Singh, 2020. In Silico Protein-Protein Interactions (PPIs) for Stress and Quality in *Zea mays* L. **Research Journal of Agricultural Sciences**. 11(4): 808-816.
7. Darshana Bisht, Narendra Singh Dhaka, Naveen Kumar, **Rashmi Malik** and Sundip Kumar, 2020. Path analysis studies of EMS-mutagenized mutant population of hexaploid wheat (*Triticum aestivum* L.). **International Journal of Chemical Studies**. 8(6): 391-394.
8. **Rashmi**, Neha Dahiya, Mahak Tufchi, Darshana Bisht, Ram Bhajan and Usha Pant, 2019. Extent of heterosis for yield and its contributing traits in high yielding varietal crosses of *Brassica juncea* L. **Chemical Science Review and Letters**.8(29):22-28.
9. Neha Dahiya, **Rashmi**, Mahak Tufchi and Ram Bhajan, 2019. Determination of gene action and some genetic parameters for yield and its contributing characters in *Brassica juncea* L. **Chemical Science Review and Letters**. 8(29):35-39.
10. Neha Dahiya, **Rashmi** and Usha Pant, 2019. Inheritance of white rust in newly developed resistant line of *Brassica juncea* L. from local germplasm. **International Journal of Chemical Studies**. 7(2):677-679.
11. Preeti Lohani, Usha Pant, **Rashmi**, Sneha Adhikari, Harshita Negi and Ram Bhajan, 2019. Evaluation of advanced line of *Brassica carinata* for drought response. **Journal of Oilseed Brassica**. 10(2): 92-96.
12. **Rashmi**, Neha Dahiya, Mahak Tufchi, Preeti Lohani, Ram Bhajan and Usha Pant, 2018. Studies on heterosis and combining ability for yield and its contributing traits in CMS based hybrids of *Brassica juncea* L. **International Journal of Chemical Studies**. 6(4):3347-3351.

13. Neha Dahiya, Ram Bhajan, **Rashmi** and Usha Pant, 2018. Heterosis and combining ability for different traits in local germplasm and varietal crosses in *Brassica juncea* L. **International Journal of Chemical Studies** 6(1): 1884-1887
14. Mahak Tufchi, **Rashmi** and N K Singh, 2018. *In silico* of prediction of 3D structure of Opaque-2 protein in maize. **Research on Crops**. 19(3):526-536.
15. Mahak Tufchi, **Rashmi**, Ferroz Hussain and N K Singh, 2017. Effect of recurrent background on the protein quality of QPM lines developed through marker assisted backcross breeding (MABB). **International Journal of Agriculture and Environmental Research**. 3(5): 3937-3947.
16. **Rashmi**, Ram Bhajan, Preeti Lohani, Neha Dahiya, Sneha Adhikari, 2017. Influence of Cyto-nuclear interactions on heterosis and combining ability for yield contributing traits in Indian mustard. **International journal of Current Microbiology and Applied Sciences**. 6(12): 4248-4267.
17. Mahak Tufchi, **Rashmi**, S.K. Jha and N. K. Singh, 2015. Effect of opaque-2 on accumulation of tryptophan among backcross-derived introgressed progenies of maize. **Indian Journal of Genetics and Plant Breeding**. 75(4) 453-458.
18. Mahak Tufchi, **Rashmi**, N K Singh and Anil Kumar, 2015. Characterization of maize population for Pro-vitamin A carotenoids using TLC.2015. **International Journal of Basic and Applied Agricultural Research**. 13(2) 181-186.
19. **Rashmi**, Mahak Tufchi, Mrinal Shastry and N K Singh, 2014. Phenotyping of maize inbred lines for beta carotene and determining relationship with total carotenoids and kernel colour in maize. **Indian Journal of Genetics and Plant Breeding** 74(4) 631-637.

Book Chapters

1. Mahak Tufchi, **Rashmi** and Naveen Kumar, 2021. Recent Advances in Bioinformatics **In** P. Kumar and A. K. Thakur (Eds.) Crop Improvement: Biotechnological Advances pp 53-61, CRC Press, Boca Raton **ISBN** 9781003099079.
2. Upendra Kumar, Priyanka, **Rashmi Malik**, Preksha, Yogita and Kamla Malik, 2021. Fe Chelation and Zinc Solubilization: A promising approach for cereals biofortification **In** A. N. Yadav (Ed.) Soil Microbiomes for Sustainable Agriculture, Sustainable Development and Biodiversity https://doi.org/10.1007/978-3-030-73507-4_6, Springer Nature Switzerland **ISBN** 978-3-030-73507-4
3. **Rashmi**, Upendra Kumar, Poonam Maan and Priyanka, 2019. Synthetic Biology: A novel approach for pharmaceutically important compounds **In** A.N. Yadav *et al.* (Eds.) Book- Recent Advancement in White Biotechnology Through Fungi, Fungal Biology Vol 2: Perspective for Value -Added Products and Environments https://doi.org/10.1007/978-3-030-14846-1_16. Springer Nature Switzerland **ISBN** 978-3-030-14845-4.
4. Sangeeta Tiwari, Neha Dahiya and **Rashmi**, 2018. Development of Insect Resistance plant varieties by plant breeding techniques (IN) Recent Trends in Integrated Pest and Disease Management pp 133-136 **ISBN** 978-3-96492-50-8.

Popular Articles in Agriculture Magazines

1. **Rashmi**, Manoj Tripathi, Sushma Tiwari, Rakesh Chaudhary, Shailja Chauhan and Kuldeep Singh, 2023. Biotechnological approaches for improvement of millets. Agri-Life published from RLBCAU, Jhansi, Uttar Pradesh. pp24.
2. **Rashmi**, Ajay Singh and Kuldeep Singh, 2023. Little millet- Super Food. Krishi Jeevan published from RLBCAU, Jhansi, Uttar Pradesh. pp9.
3. Usha Pant, Neha Dahiya and **Rashmi**, 2020. Sesame as oilseed crop-boon to farmers of Uttarakhand. Indian Farmers' Digest published from GBPUA&T, Pantnagar, Uttarakhand pp34.
4. Usha Pant, **Rashmi**, Neha Dahiya and Preeti Lohani, 2020. उत्तराखण्ड में राई सरसों की उन्नत उत्पादन तकनीकें। पर्वतीय क्षेत्रों की पारम्परिक फसलों का उन्नत उत्पादन एवं कटाई उपरान्त प्रसंस्करण तकनीकी द्वारा आय सृजन published from ICAR-VPKAS, Almora, Uttarakhand pp86.
5. Usha Pant, **Rashmi**, Neha Dahiya and Ram Bhajan, 2019. Trends and Technological status of Rapeseed-Mustard production in Uttarakhand. Indian Farmers' Digest published from GBPUA&T, Pantnagar, Uttarakhand pp7

Achievements

- Awarded Best PhD Thesis Award by Society for Rapeseed & Mustard Research (SRMR), Bharatpur, Rajasthan on 3 February 2019 in 4th National Brassica Conference held at Chandra Shekhar Azad University of Agriculture & Technology Kanpur, Uttar Pradesh.
- Awarded DBT Travel grant to visit to Bangkok, Thailand for 12th Asian Maize Conference held on October 30- November 1, 2014
- Holds Membership of Indian Society of Genetics and Plant breeding Society (ISGPB), New Delhi
- Presented Radio talk to AKASHVANI, Gwalior on topic 'BEEJ Utpadan Prakriya' which was recorded on 10 July 2023 and broadcasted on 12 July 2023.
- National Social Service (NSS) B and C Certificate holder.

Personal Profile



Name- Rashmi

Date of Birth- November 5, 1989

Sex- Female

Language- Hindi, English

Nationality – Indian

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Declaration

I hereby declare that all the information above is true and correct