

CURRICULUM VITAE

Ravindra Kumar Kasana

193, Village- Rewri-Rewra

Post- Muradnagar

District- Ghaziabad

Pin Code- 201206

☎:: 9756724168

💻: ravindracs1@gmail.com



CAREER OBJECTIVE

To pursue a highly rewarding career, seeking for a job in challenging and healthy work environment where I can utilize my skills and knowledge efficiently for organizational growth. This provides me job satisfaction and self-development and helps me achieve personal as well as organizational goals.

PROFESSIONAL QUALIFICATION

2015	M. Sc (Genetics & Plant Breeding) , 71.00%. From C.S.A University of Agriculture & Technology, Kanpur.
2013	B. Sc (Ag) , 61.31% From C.C.S University, Meerut.

ACADEMIC QUALIFICATION

2009	Intermediate passed the U.P Board Allahabad with 63.70%.
2007	High School passed the U.P. Board Allahabad with 56.16%.

COMPUTER PROFICIENCY

- Basic Knowledge of Computer.
- Adobe Photoshop
- CCC Certificate

TRAINING AND CONFERENCE/WORKSHOP PROGRAMME

- “Basic Microbiological Techniques” 28-29 December 2014 conducted by the Department of Biochemistry, National Sugar Institute Kanpur 208002.
- National Conference on Innovation and Current Advances in Agriculture and Allied Sciences, 10-11 December 2016 at Prof. Jayashankar Telangana State Agriculture University Rajendranagar, Hyderabad 500030.
- The Refresher course-cum-workshop on “Precision Phenotyping for Abiotic Stresses and Digital Data Capture” 31st May 2017 at BHU, Varanasi, Uttar Pradesh, India.

- International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences 28-30 October 2018 at Rajasthan Agricultural research Institute (SKNAU, Jobner), Durgapura, Jaipur (Rajasthan) India.
- Ten days short course training programme on “Advancement of physiological strategies for crop improvement against abiotic stresses” 20-29 August 2018 at ICAR-Central Soil Salinity Research Institute, Karnal, Haryana.
- National Conference on Maize: A Crop for Food, Feed, Nutritional and Bioenergy Security with Environmental Sustainability, 23-25 August 2024 at Punjab Agricultural University Ludhiana, Punjab.
- National Symposium on Hybrid Technology for Enhancing Crop Productivity (NSHT), 8-10 January 2025 at NASC Complex New Delhi.
- M.S.Swamminathan Centenary International Conference 2025 on “Evergreen Revolution: The Pathway to Biohappiness” 7-9 August 2025, at NASC Complex, New Delhi, India.

EXPERIENCE

- Two years research experience in maize crop on project “Climate Resilient Maize for Asia” as Senior Research Fellow at Regional Maize Research and Seed Production Centre Begusarai, Bihar (ICAR-Indian Institute of Maize Research Ludhiana)’
- Six and half Years research experience on project ICAR-Molecular breeding for improvement of tolerance to biotic and abiotic stresses, yield and quality traits in maize crops as Senior Research Fellow at ICAR-Indian Institute of Agriculture Research, New Delhi.

INBRED LINES/HYBRIDS/VARIETIES

- Three Maize Inbred lines (**IML-11, IML-12, IML-13 & IML-21**). (Co-developer)
- Three Maize Hybrid (**IMH-222, IMH-223, IMH-224**) for early maturing and high yielding. (Co-developer)
- Four Maize Hybrid (**APQH4, ALPQH1, ALQH9 & ABHS27**) for nutritional value and high yielding. (Co-developer)

RESEARCH PAPER PUBLISHED

- Pal S, Zunjare RU, Muthusamy V, Gowda MM, Duo H, Chhabra R, **Kasana RK**, Maman S, Katral A, Bhowmick PK, Hossain F (2025) Molecular characterization of T-, C-and S-specific cytoplasmic male sterile (CMS) maize inbreds using mitochondrial SSRs for its utilization in baby corn breeding. *Molecular Biology Reports*.52(1):1-3 <https://doi.org/10.1007/s11033-025-10624-x>
- Gain N, Muthusamy V, Chhabra R, Kyada AD, Dutta S, Chand G, **Kasana RK**, Sarika K, Devi EL, Madhavan J, Subramani R (2025) Accelerated development of MTL and DMP gene-based subtropically-adapted maternal haploid inducer lines in maize using molecular breeding. *Planta*. 262(4):88. <https://doi.org/10.1007/s00425-025-04789-9>
- Mishra SJ, Hossain F, Zunjare RU, Chhabra R, Katral A, Gopinath I, Bhatt V, Sarma GR, Talukder ZA, **Kasana RK**, Devi EL (2025) Genomics-assisted stacking of waxy1, opaque2, and crtRB1 genes for enhancing amylopectin in biofortified maize for industrial

utilization and nutritional security. *Functional & Integrative Genomics*. 25(1):18.<https://doi.org/10.1007/s10142-024-01523-8>

- Gowda MM, Muthusamy V, Chhabra R, Duo H, Pal S, Gain N, Katral A, **Kasana RK**, Zunjare RU and Hossain F (2025) Development and validation of multiplex-PCR assay for β -carotene hydroxylase and γ -tocopherol methyl transferase genes governing enhanced multivitamins in maize for its application in genomics-assisted breeding. *Plants*.14: 142. <https://doi.org/10.3390/plants14010142>
- Duo H, Zunjare RU, Mishra SJ, Muthusamy V, Thambiyannan S, Kumar S, **Kasana RK**, Gopinath I, Sharma G, Chhabra R, Sarma GR (2024) Genetic analysis on composition of sulfur-containing amino acids: methionine and cysteine in subtropical maize. *Journal of Food Composition and Analysis*. 106774.<https://doi.org/10.1016/j.jfca.2024.106-774>
- Rojaria V, Hossain F, Zunjare RU, Bhatt V, Katral A, **Kasana RK**, Mishra SJ, Basu S, Singh AK, Muthusamy V (2024) Development and characterization of lpa1 and lpa2-based low phytate double mutants in maize for enhancing the nutritional quality of food and feed. *Journal of Food Composition and Analysis*. 106771. <https://doi.org/10.1016/j.jfca.2024.106771>
- Katral A, Hossain F, Zunjare RU, Ragi S, **Kasana RK**, Duo H, Gopinath I, Mehta BK, Guleria SK, Thimmegowda V, Vasudev S (2024) Maize genotypes with favourable dgat1–2 and fatb alleles possess stable high kernel oil and better fatty acid health and nutritive indices. *International Journal of Biological Macromolecules*. 134848. <https://doi.org/10.1016/j.ijbiomac.2024.134848>
- Kyada AD, Chhabra R, Muthusamy V, **Kasana RK**, Gharma G, Gain N, Madhavan J, Zunjare RU, Hossain F (2024) Integrative genetic and molecular delineation of indeterminate gametophyte1 (ig1) gene governing paternal haploid induction in maize. *South African Journal of Botany*. 172(12):192-200.<https://doi.org/10.1016/j.sajb.20-24.07.004>
- Katral A, Hossain F, Zunjare RU, Mishra SJ, Ragi S, **Kasana RK**, Chhabra R, Thimmegowda V, Vasudev S, Kumar S, Bhat JS, Neeraja CN, Yadava DK, Muthusamy V (2024) Enhancing kernel oil and tailoring fatty acid composition by genomics-assisted selection for *dgat1-2* and *fatb* genes in multi-nutrient-rich maize: new avenue for food, feed and bioenergy. *The Plant Journal*.119 (05): 2402-22. <https://doi.org/10.1111/tpj.16926>
- Gopinath I, Hossain F, Thambiyannan S, Sharma N, Duo H, **Kasana RK**, Katral A, Devlash R, Veluchamy SSKR, Zunjare RU, Sekhar JC, Guleria SK, Rajasekaran R and Muthusamy V (2024) Unraveling popping quality through insights on kernel physical, agro-morphological, and quality traits of diverse popcorn (*Zea mays* var. *everta*) inbreds from indigenous and exotic Germplasm. *Food Research International*.191: 114676 <https://doi.org/10.1016/j.foodres.2024.114676>
- Singh SB, Kumar S, Kumar R, Kumar P, Yathish KR, Jat BS, Chikkappa GK, Kumar B, Jat SL, Dagla MC, Kumar B, Kumar A, **Kasana RK**, Kumar S (2024) Stability analysis of promising winter maize (*Zea mays* L.) hybrids tested across Bihar using GGE biplot and AMMI model approach. *Indian J. of Gen & Plant Breeding*. 84(01):73-80.<https://doi.org/10.31742/ISGPB.84.1.6>

- Reddappa SB, Zunjare RU, Muthusamy V, Chhabra R, Talukder ZA, Maman S, Bhatt V, **Kasana RK**, Pal D, Kumar R, Mehta BK (2024) Genetic Analysis of Accumulation of Amylose and Resistant Starch in Subtropical Maize Hybrids. *Starch-Stärke*. 2300147. <https://www.researchgate.net/publication/378071289>
- Maman S, Hossain F, Katral A, Zunjare RU, Gain N, Reddappa SB, **Kasana RK**, Sekhar JC, Neeraja CN, Yadava DK, Muthusamy V (2023) Influence of storage duration on retention of kernel tocopherols in *vte4*-based biofortified maize genotypes. *Journal of Food Composition and Analysis*. 123:105626. <https://doi.org/10.1016/j.jfca.2023.105626>
- Chand G, Muthusamy V, Allen T, Zunjare RU, Mishra S, **Kasana R**, Bhatt V, Ismail MR, Sarika K, Guleria SK and Hossain F (2022) Genetic analysis of maize genotypes possessing novel combination of opaque2 and opaque16 genes affecting higher accumulation of lysine and tryptophan in kernels. *J. Cereal Sci.* <https://doi.org/10.1016/j.jcs.-2022.103534>
- Talukder ZA, Muthusamy V, Chhabra R, Bhatt V, Reddappa SB, Mishra SJ, Prakash NR, **Kasana R**, Chauhan HS, Mehta B, Guleria SK, Zunjare RU and Hossain F (2022) Enrichment of amylopectin in sub-tropically adapted maize hybrids through genomics-assisted introgression of *waxy1* gene encoding granule-bound starch synthase (GBSS). *Journal of Cereal Science*. 105:103443 <https://doi.org/10.1016/j.jcs.2022.103443>
- Talukder ZA, Muthusamy V, Chhabra R, Gain N, Reddappa SB, Mishra SJ, **Kasana R**, Bhatt V, Chand G, Katral A, Mehta BK, Guleria SK, Zunjare RU and Hossain F (2022) Combining higher accumulation of amylopectin, lysine and tryptophan in maize hybrids through genomics-assisted stacking of *waxy1* and *opaque2* genes. *Scientific Reports*. 12:706 <https://doi.org/10.1038/s41598-021-04698-3>
- Singh SB, Kumar P, **Kasana RK**, Choudhary M, Kumar S, Kumar R, Karjagi CG, Kumar B, Rakshit S (2021) Unveiling combining ability and heterotic grouping of newly developed winter maize (*Zea mays*) inbreds. *The Indian Journal of Agricultural Sciences*. 91(11):1586-91. <https://doi.org/10.56093/ijas.v91i11.118535>
- Ragi S, Muthusamy V, Zunjare RU, Bhatt V, Katral A, Abhijith KP, **Kasana R**, Gain N, Sekhar JC, Yadava DK and Hossain F (2021) Genetic and molecular characterization of sub-tropically adapted low phytate genotypes for utilization in mineral biofortification of maize (*Zea mays* L.). *Crop and Pasture Science*. <https://doi.org/10.1071/CP21104>
- Pal S, Zunjare RU, Muthusamy V, Duo H, Gowda MM, Bhowmick PK, **Kasana R**, Bhatt V and Hossain F (2020) Influence of T-, C- and S- cytoplasm on male sterility and their utilisation in baby corn hybrid breeding. *Euphytica*. 216 <https://doi.org/10.1007/s10681-020-02682-y>
- Singh SB, **Kasana RK**, Kumar S, Kumar R (2020) Assessing genetic diversity of newly developed winter maize (*Zea mays* L.) inbred lines. *Indian Journal of Plant Genetic Resources*. 33(01):68-76. <https://doi.org/10.5958/0976-1926.2020.00010.8>
- Singh SB, Kumar S, **Kasana RK**, Singh SP (2019) Combining ability analysis and heterosis for yield and yield attributing traits in late maturing winter maize inbred lines. (*Zea mays* L.). *Frontiers in Crop Improvement*. 7 (1): 42-51.
- **Kasana RK**, Singh PK, Tomar A, Singh M (2019) Genetic variability, mean performance and analysis of variance in Linseed (*Linum usitatissimum* L.). *International Journal of Agricultural Invention*. 4(1): 89-95: <https://doi.org/10.46492/IJAI/2019.4.1.15>

- Singh SB, Karjagi CG, Hooda KS, Mallikarjuna N, Harlapur SI, Rajashehekara H, Devlash R, Kumar S, **Kasana RK**, Kumar S, Gangoliya SS, Rakshit S (2018) Identification of resistant sources against turicum leaf blight of maize (*Zea mays* L.). *Maize Journal*. 7(2):64-71.
- **Kasana RK**, P K Singh, Amit Tomar, Shiva Mohan and Sonu Kumar (2018) Selection parameters (heritability, genetic advance, correlation and path coefficient) analysis in linseed (*Linum usitatissimum* L.) *The Pharma Innovation*. 7(6)
- **Kasana RK**, P K Singh, Amit Tomar, Shiva Mohan and Sonu Kumar (2018) Genetic diversisty (D²) analysis in linseed (*Linum usitatissimum* L.) *Journal of Pharmacognosy and Phytochemistry*. 7 (3)
- **Kasana RK**, Singh PK, Tomar A, Mohan S, Kumar S (2018) Genetic variability [Mean, range, general mean, standard error, coefficient of variability (PCV & GCV) in linseed (*Linum usitatissimum* L.]. *Journal of Pharmacognosy and Phytochemistry*. 7 (3):2279-85.
- Sonu Kumar, M.P. Chauhan, Amit Tomar and **Kasana RK** (2018) Coefficient of variation (GCV & PCV), heritability and genetic advance analysis for yield contributing characters in rice (*Oryza Sativa* L.) *Journal of Pharmacognosy and Phytochemistry*. 7(3).
- Sonu Kumar, M.P. Chauhan, Amit Tomar, **Kasana RK** and Nimit Kumar (2018) Heterotic parameter analysis for grain yield and its contributing traits in rice (*Oryza sativa* L.) *Journal of Pharmacognosy and Phytochemistry*. 7(3).
- Singh SB, Yadav KK, Bagaria P, **Kasana RK**, Bhati J (2017) Morpho-Genetic variability and characterization of newly developed winter maize inbred lines. *Progressive Research – An International Journal*.12 (1):15-21.
- Shiva Mohan, RK Yadav, Amit Tomar and **Kasana RK** (2017)Utilization of selection parameters for seed yield and its contributed traits in Indian mustard (*Brassica juncea* L. Czern & Coss) *The Pharma Innovation Journal*. 6(8).

BOOK CHAPTER

- Hossain F, Zunjare RU, Muthusamy V, Kumar A, Madhavan J, Ikkurti G, Katral A, Talukder ZA, Chhabra R, Chand G, Bhatt V, Gul I, Mishra SJ, Duo H, Dutta S, Gain N, Chauhan P, Maman S, Reddappa SB and **Kasana RK** (2023) Genetic Improvement of Specialty Corn for Nutritional Quality Traits. S. H. Wani et al. (eds.) *Maize Improvement*, Springer Nature. https://doi.org/10.1007/978-3-031-21640-4_11
- Hossain F, Zunjare RU, Muthusamy V, Bhat JS, Mehta BK, Sharma D, Talukder ZA, Chhabra R, Katral A, Dutta S, Chand G, Bhatt V, Mishra SJ, Gain N, **Kasana R**, Ikkurti G, and Duo H (2022) Biofortification of Maize for Nutritional Security. In: *Biofortification of Staple Crops*, S. Kumar et al. (eds.), Springer Nature. https://doi.org/10.1007/978-981-16-3280-8_6

ARTICLES IN TRAINING MANUALS

- Hossain F, Muthusamy V, Zunjare RU, Sarika K, Das AK, Mehta BK, Chhabra R, Baveja A, Chauhan HS, Chand G, Bhatt V, Singh B, Prakash NR, Talukder MZA, Katral A, Krishnan AP, Ragi S, Dutta S, Gain N, Mishra SJ and **Kasana R** (2020) Genomics-assisted breeding for enhancement of nutritional quality and specialty traits in maize (*Zea*

mays L.). In: Training manual on 'Genomics Assisted Breeding for Crop Improvement', Muthusamy V and Ellur RK (Eds.), ACARE, Yenzin Agricultural University, Nay Pyi Taw, Myanmar, 16-28 March 2020, pp. 113-136.

- Muthusamy V, Zunjare RU, Chhabra R, Gain N, Mishra SJ, Bhatt V, Chand G, **Kasana R**, Katral A and Hossain F (2020) Isolation of DNA from maize tissue. In: Training manual on 'Genomics Assisted Breeding for Crop Improvement', Muthusamy V and Ellur RK (Eds.), ACARE, Yenzin Agricultural University, Nay Pyi Taw, Myanmar, 16-28 March 2020, pp. 152-156.
- Muthusamy V, Zunjare RU, Chhabra R, Katral A, Gain N, Mishra SJ, Chand G, Bhatt V, **Kasana R** and Hossain F (2020) Genotyping for marker-assisted selection in maize. In: Training manual on 'Genomics Assisted Breeding for Crop Improvement', Muthusamy V and Ellur RK (Eds.), ACARE, Yenzin Agricultural University, Nay Pyi Taw, Myanmar, 16-28 March 2020, pp. 179-184.
- Muthusamy V, Zunjare RU, Das AK, Mehta BK, Dutta S, Gowda M, Duo H, Chand G, Bhatt V, **Kasana R**, Talukder MZA, Ismail MR, Baveja A, Chauhan HS, Singh B, Katral A, Mishra SJ, Gain N, Chhabra R, Sarika K, Sharma D and Hossain F (2020) Biofortified Maize Hybrids for Nutritional Security. In: Training manual of ACARE sponsored short-term training on 'Heterosis Breeding: Principles and Practices' held at Yezin Agricultural University, Yezin, Nay Pyi Taw, Myanmar, 24 Feb-06 Mar, 2020, pp. 71-77.
- Zunjare RU, Muthusamy V, Pal S, Chhabra R, Mishra SJ, Prakash NR, Chand G, **Kasana R**, Bhatt V, Katral A, Gain N and Hossain F (2020) Baby corn: an emerging vegetable crop for farmers' prosperity. In: Training manual of ACARE sponsored short-term training on 'Heterosis Breeding: Principles and Practices' held at Yezin Agricultural University, Yezin, Nay Pyi Taw, Myanmar, 24 Feb-06 Mar, 2020, pp. 78-83.
- Muthusamy V, Zunjare RU, Chhabra R, Gain N, Mishra SJ, Bhatt V, Singh B., **Kasana R** and Hossain F (2019). DNA isolation from maize tissues. In: Training manual of 'World Bank-ICAR funded National Agricultural Higher Education Project (NAHEP) and Centre for Advanced Agricultural Science and Technology (CAAST) training programme on 'Genomics-assisted breeding for crop improvement', 30th September, 2019-12th October, 2019, pp: 155-158.
- Hossain F, Muthusamy V, Zunjare RU, Sarika K, Das AK, Mehta BK, Chhabra R, Baveja A, Chauhan HS, Chand G, Bhatt V, Singh B, Prakash NR, Alam MZ, Gain N, Mishra SJ and **Ravindra K** (2019) Genomics assisted breeding for nutritional quality enhancement in maize. In: Training manual of 'World Bank-ICAR funded National Agricultural Higher Education Project (NAHEP) and Centre for Advanced Agricultural Science and Technology (CAAST) training programme on 'Genomics-assisted breeding for crop improvement', 30th September, 2019-12th October, 2019, pp: 113-122.

STRENGTH

- Good communication skills, positive attitude, good imagination punctuality, self-motivation, confidence, relativity, teamwork, leadership qualities and hard work.
- I am hardworking person and I having positive attitude in all tasks that I work and will put maximum efforts in complete the assigned task. And self-motivation that is increases my confidence to facing any situation and quick adaptability in any environment.

HOBBIES

- Read Magazine, Newspaper & Books, net surfing, playing cricket.

PERSONAL DETAILS

Name	:	Ravindra Kumar Kasana
Sex	:	Male
Date of Birth	:	08 th JUNE 1993
Father's Name	:	Sh. Binesh Kumar
Permanent Address	:	Village- Rewri-Rewra
Post	:	Muradnagar
District	:	Ghaziabad (U.P)
Pin code	:	201206
Mobile No.	:	9756724168, 7007354020
Marital Status	:	Married
Nationality	:	Indian

References–

Dr. Firoz Hossain
Principal Scientist & Programme Leader
Maize Genetics Unit
IARI New Delhi
Email Id- fh_gpb@yahoo.com
Mobile No- 981172789

Dr. Vignesh Muthusamy
Senior Scientist
Maize Genetics Unit
IARI New Delhi
Email Id- pmvignesh@yahoo.com
Mobile No- 8802713269

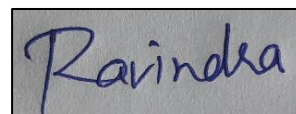
Dr. S.B. Singh
Principal Scientist
ICAR-IIMR Ludhiana Punjab
Email Id- singhsb1971@refiffmail.com
Mobile No- 8279336806

Dr. Ramesh Kumar
Principal Scientist
ICAR-IIMR Ludhiana Punjab
Email Id- rk.phagna@gmail.com
Mobile No- 8437252547

Declaration: I hereby declare that all the information furnished above is true to the best of my knowledge.

DATE: 07.10.2025

PLACE: New Delhi



(Mr. Ravindra Kumar Kasana)