

| S. No. | Research article | NAAS Rating |
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| | 2023 | |
| 1 | Aggarwal, S.K., Hooda, K.S., Kaur, H., Gogoi, R., Chauhan, P., Bagaria, P.K., Kumar, P., Choudhary, M., Tiwari, R.K. and Lal, M.K. (2023) Comparative evaluation of management modules against Maydis leaf blight disease in maize (<i>Zea mays</i>). <i>European Journal of Plant Pathology</i> , pp.1-11. | 11.34 |
| 2 | Baradwal, H., Ghosh, A., Singh, A.K., Jiménez-Ballesta, R., Yadav, R.K., Misra, S., Siddanagouda Sannagoudar, M., Kumar, S., Kumar, R.V., Singh, S.K.Yadav, D.K. and Mahala, D.M.(2023) Soil Nutrient Dynamics under Silvi culture, Silvipasture and Hortipasture as Alternate Land-Use Systems in Semi-Arid Environment. <i>14(1)</i> , p.125. | 9.28 |
| 3 | Bhushan, B., Bibwe, B., Pal, A., Mahawar, M. K., Dagla, M. C., Yathish, K. R., ... & Chaudhary, D. P. (2023) FTIR spectra, antioxidant capacity and degradation kinetics of maize <i>anthocyanin</i> extract under variable process conditions. <i>Applied Food Research</i> , 3(1), 100282. | 13.43 |
| 4 | Bichewar, N.D., Prasad, B.V., Kumar, M.V., Sunil, N., Mallaiah, B. and Meena, A., (2023) Heterosis Studies in Line × Tester Crosses of Maize for Yield and its Component Traits in Maize (<i>Zea mays</i> L.) Across Locations. <i>Biological Forum – An International Journal</i> . 15(8a): 144-151(2023). | 4.58 |
| 5 | Bhushan, B., Mahawar, M.K., Jalgaonkar, K., Dagla, M.C., Kumar, P., Yathish, K.R., & Chaudhary, D.P. (2023) Physical characterization of morphologically diverse colour maize (<i>Zea mays</i>) seeds. <i>The Indian Journal of Agricultural Sciences</i> , 93(2), 229-232. | # |
| 6 | Bohra, Y., Singh, A., Kaur, A., Rautela, A., Verma, R.K., Sharma, V.K., Bagaria, P.K. (2023) Emerging <i>pathogens</i> A consequence of climate change or eco logical im balance?. <i>Plant Disease Research</i> , 38(1), pp.47-58. | 4.76 |
| 7 | Chaudhary, A., Meena, M.C., Bana, R.S., Dey, A., Datta, S.P., Mahala, D. and Mishra, R., 2023. Assessing the Effectiveness of Zero Tillage and Legume-based Cropping Systems for Enhancing Soil Nitrogen <i>Concentrations</i> and Stocks under Rainfed Pearl Millet Production Systems. <i>Journal of the Indian Society of Soil Science</i> , 71(3), pp.299-308. | 7.69 |
| 8 | Dattatray, B.N., Prasad, B.V., Kumar, M.V. Sunil, N., Mallaiah, B. and Meena, A. (2023) Combining Ability Analysis for Grain Yield and Yield Attributing Traits in Maize. <i>International Journal of Environment and Climate Change</i> , 13(10), pp.1318-1332 | 5.13 |
| 9 | Dinesh, G.K., Sharma, D.K., Jat, S.L., Bandyopadhyay, K., Rao, C.S., Venkatramanan, V., Kadam, P.V., Sinduja, M., Sathya, V., Nedumaran, S., Bhatia, A., Kumar, P., Purakayastha, T. J., Anand, A. & Boomiraj, K. (2023) Effect of Conservation Agriculture Practices on Carbon Pools in a Sandy Loam Soil of Indo- <i>Gangetic</i> Plains. <i>Communication Soil Science and Plant Analysis</i> 54 (2 0): 2 8 4 5 – 2 8 6 2 . https://doi.org/10.1080/00103624.2023.2241513 | 7.58 |

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| 10 | Dinesh, G.K., Sharma, D.K., Jat, S.L., Bandyopadhyay, K., Rao, C.S., Venkatramanan, V., Kadam, P.V., Sinduja, M., Sathya, V., Nedumaran, S., Bhatia, A., Kumar, P., Purakayastha, T. J., Anand, A. & Boomiraj, K. (2023) Effect of Conservation Agriculture Practices on Carbon Pools in a Sandy Loam Soil of Indo-Gangetic Plains. <i>Communication Soil Science and Plant Analysis</i> 54 (20): 2845 – 2862. https://doi.org/10.1080/00103624.2023.2241513 | 7.58 |
| 20 | Gautam, A., Khan, F.N., Priya, S., Kumar, K., Sharda, S., Kaul, T., Singh I., Langyan, S., Yadava, P. (2023) Cloning and comparative modeling identifies a highly stress tolerant Cu/Zn cytosolic super oxide dismutase from a drought tolerant maize inbred line. <i>Peer J</i> 11:e14845. | 9.06 |
| 21 | Gopinath, I., Muthusamy, V., Katral, A., Zunjare, R.U., Madhavan, J., Yathish, K.R., Sekhar, J.C. and Hossain, F. (2023) Meta-QTL analysis and identification of candidate <i>genes</i> governing popping quality attributes in maize. <i>South African Journal of Botany</i> . 159: 461-471. | 9.11 |
| 21 | Gowda, M.A.P., Sekhar, J.C., Soujanya, P.L., Yathish, K.R., Rahman, S.J., Mallaiah, B., Akhilandeshwari, D. (2023) Analyzing the influence of planting dates and weather variables on fall <i>armyworm</i> incidence in maize. <i>The Pharma Innovation Journal</i> , 2(9): 950-955. | 5.23 |
| 22 | Gowda, M.A.P., Sekhar, J.C., Soujanya, P.L., Yathish, K.R., Rahman, S.J., Mallaiah, B. (2023) Relationship of sowing dates with the seasonal incidence of fall armyworm <i>Spodoptera frugiperda</i> (J.E. Smith) in maize. <i>Maize Journal</i> , 12(1):1-7 | 3.72 |
| 23 | Gowda, M.A.P., Sekhar, J.C., Soujanya, P.L., Yathish, K.R., Rahman, S.J., Mallaiah, B., Akhilandeshwari, D. (2023) Evaluation of maize germplasm for <i>physio-morphological</i> traits against fall armyworm. <i>Emergent Life Sciences Research</i> , 9(2)-349-355. | 5.41 |
| 24 | Gowda, M.A.P., Sekhar, J.C., Soujanya, P.L., Yathish, K.R., Rahman, S.J., Mallaiah, B., Akhilandeshwari, D. (2024) Correlation studies between maize planting dates, weather parameters and the incidence of fall armyworm (<i>Spodoptera frugiperda</i>) <i>Plant Archives</i> , 24 (1):101-107. | 4.73 |
| 25 | Guleria, N., Nebapure, S.M., Kamala Jayanthi, P.D., Suby S.B., Deeksha MG. (2023) Electro physiological and Behavioral Responses of Spotted Stem Borer, <i>Chilo partellus</i> , to Sex Pheromone Components and Their Blends. <i>Journal of Chemical Ecology</i> , 49(3-4), pp.155-163 | 8.79 |
| 26 | Joseph, A.M., Bhattacharyya, R., Biswas, D.R., Das, T.K., Bandyopadhyay, K.K., Dey, A., Ghosh, A., Roy, P., Naresh Kumar, S., Jat, S.L., Casini, R., Elansary, H.O. and Bhatia, A. (2023) Long-term adoption of bed planted conservation agriculture-based maize/cotton-wheat system enhances soil organic carbon stabilization within aggregates in the Indo-Gangetic Plains. <i>Frontiers in Environmental Science-Soil Processes</i> . https://doi.org/10.3389/fenvs.2023.1216242 . | 9.35 |

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| 27 | Joseph, A. M., Bhattacharyya, R., Das, T.K., Sharma, D.K., Roy, P., and Jat, S.L. (2023) Conservation agriculture impacts on soil carbon sequestration under a cotton (<i>Gossypium hirsutum</i>)-wheat (<i>Triticum aestivum</i>) system in the Indo-Gangetic plains. <i>Indian Journal of Agricultural Sciences</i> 93(8): 925-929. 20. Joshi, S., Sharma, S., Sharma, R., Gupta Aand Kumar R. (2023) Influence of pre-gelatinization in conjunction with guar gum addition on texture functionality, bioactive profile, in vitro nutrient digestibility, morphology and secondary structure of protein of quality protein maize pasta. <i>International Journal of Food Science and Technology</i> . doi:10.1111/ijfs.16378: pp.1-10 | 9.12 |
| 28 | Kadam, P.V., Jat, S.L., Mahala, D.M., Parihar, C.M., Singh, A.K., Kumar, B., Gambhir, G., Radheshyam and Chandra, M.S.(2023) Residue retention and nitrogen management of preceding crop influences the productivity, profitability and environmental foot prints of summer <i>mungbean</i> in maize-based cropping systems under conservation agriculture. <i>Archives of Agronomy and Soil Science</i> , DOI:10.1080/03650340.2022.2130264, | 7.69 |
| 29 | Karjagi, C.G., Phagna, R.K., Neelam, S., Sekhar, J.C., Singh, S.B., Yathish, K.R. (2023) Identification of best testers for heterotic grouping of tropical maize inbred lines using GGE <i>biplots</i> . <i>Crop Science</i> : https://doi.org/10.1002/csc2.20968 | 8.76 |
| 11 | Karnatam, K.S., Chhabra G., Saini, D.K., Singh, R., Kaur, G., Praba, U.P., Kumar, P., Goyal, S., Sharma, P., Ranjan R., Sandhu S.K., Kumar, Ramesh and Vikal, Y. (2023) <i>Genome-Wide Meta-Analysis of QTLs Associated with Root Traits and Implications for Maize Breeding</i> . <i>Int. J. Mol. Sci.</i> 24, 6135. https://doi.org/10.3390/ijms24076135 . | 12.21 |
| 12 | Katral, A.K., Hossain, F., Zunjare, R., Chhabra, R., Vinutha, T., Duo, H., Kumar, B., Chikkappa, K.C., Jacob, S., Pandey, S., Neeraja, C.N., Vasudev, S. and Muthusamy, V (2024). Multilocus functional characterization of indigenous and exotic inbreds for <i>dgat1-2</i> , <i>fatb</i> , <i>ge2</i> and <i>wri1a</i> genes affecting kernel oil and fatty acid profile in maize. <i>Gene</i> (895) 148001. https://doi.org/10.1016/j.gene.2023.148001 | 10.40 |
| 13 | Kaur, N., Kaur, M. and Kumar, R. (2023) Value addition in baby corn: An Overview. <i>Current Advances in Agricultural Sciences</i> 14(2): 127-131 (December 2022). DOI: 10.5958/2394-4471.2022.00026.0. 26. Kaur, S., Kumar, B., Singh, V., Das, A.K., Rakshit, S.(2023). Genetic dissection of popping quality traits in tropical popcorn (<i>Zea mays</i> L. <i>var. everta</i>). <i>Journal of Cereal Science</i> , 112:103700. https://doi.org/10.1016/j.jcs.2023.103700 | 10.08 |
| 14 | Kumar, K., Kumar, B., Jha, A.K., Neha, Piyal, P. (2023) Genome editing for banded leaf and sheath blight resistance in Indian maize <i>Genotypes</i> . <i>Maize Journal</i> 12(2): 61-65 | 3.72 |

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| 15 | Kumar, K., Parihar, C. M., Nayak, H. S., Godara, S., Avinash, G., Patra, K., Sena, D. R., Reddy, K. S., Das, T. K., Jat, S. L., Ghatala, M. K., Singh, U. and Sharawat Y.S. (2023). Enhancing maize yield in a conservation agriculture-based maize (<i>Zea mays</i>)- wheat (<i>Triticum aestivum</i>) system through efficient nitrogen management. Indian Journal of Agricultural Sciences 93(4):420–424. | 6.37 |
| 16 | Kumar, P.V., Mallikarjuna, M.G., Jha, S.K., Mahato, A., Lal, S.K., Yathish, K.R., Lohithaswa, H.C. and Chinnusamy, V. (2023) Unravelling structural, functional, evolutionary and genetic basis of SWEET transporters regulating <i>biotic stress</i> tolerance in maize. International Journal of Biological Macro molecules.229:539–560 | 12.06 |
| 17 | Kumar, R., Kaur, Y., Das, A.K., Singh, S.B., Kumar, B., Patel, M.B., Shahi, J.P. and Zaidi, P.H. (2023) Stability of maize hybrids under drought, rainfed and optimum conditions revealed through GGE analysis. Indian J. Genet. Plant Breed, 83(4):499-507. | 7.34 |
| 18 | Kumar, S., Suby, S.B., Vasmatkar, P., Nebapure, S.M., Kumar, N., Mahapatro, G.K. (2023) Influence of temperature on insecticidal toxicity and detoxifying enzyme of <i>Spodoptera frugiperda</i> . <i>Phytoparasitica</i> , pp.1-13. | 7.81 |
| 19 | Kumar, S., Singh, P., Devi, U., Yathish, K.R., Soujanya, P.L., Kumar, R. and Mahanta, S.K. (2023) An overview of the current fodder Scenario and the Potential for Improving Fodder Productivity through Genetic Interventions in India. Animal Nutrition and Feed Technology. 23: 631-644 | 6.00 |
| 20 | Kumar, S., Bhushan, B., Wakchaure, G. C., Dutta, R., Jat, B. S., Meena, K.K. & Pathak, H. (2023) Unveiling the Impact of Heat Stress on Seed Biochemical Composition of Major Cereal Crops Implications for Crop Resilience and Nutritional Value. <i>Plant Stress</i> 100183. | # |
| 21 | Madankar, K., Shahi, J.P., Singh, P.K., Yathish, K.R., Singamsetti, A., Nair, S.K., Bhatla, A., Shikha, K. and Rakshit, S. 2023. Elucidating molecular diversity and grouping of Indian maize (<i>Zea mays</i> L.) inbred lines using SNP markers. Cereal Research Communications. https://doi.org/10.1007/s42976-023-00433-y . | 7.24 |
| 22 | Mahala, D.M., Meena, M.C., Dwivedi, B.S., Datta, S.P., Dey, A., Das, D., Parihar, C.M., Yadav, R.K., Chaudhary, A., Jat, R.K. and Choudhary, K.M., (2023) Changes in soil organic carbon pools after 15 years of Conservation Agriculture in rice (<i>Oryza sativa</i>)-wheat (<i>Triticum aestivum</i>) cropping system of eastern Indo Gangetic plains. | # |
| 23 | Mukri, G., Gadag, R.N., Bhat, J.S., Nepolean, T., Gupta, N.C., Mittal, S., Nithyashree, M.L., Kumar, R., and Pal, D. (2023) Characterization of sub-tropical maize (<i>Zea Mays</i> L.) inbred lines for the variation in kernel row numbers (KRN). Cereal Research Communications. https://doi.org/10.1007/s42976-023-00386-2 | 7.24 |

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| 24 | Oruganti, S., Sunil, N., Chikkappa, G. K., Kumar, M. V. N., & Vanisri, S. (2023) Assessment of Various Variability Parameters and Correlation of <i>Quantitative</i> Characters in Maize (<i>Zea mays</i> L.) Inbred Lines. <i>International Journal of Environment And Climate Change</i> , 13 (10), 3049 – 3056. https://doi.org/10.9734/ijecc/2023/v13i102973 . | 5.13 |
| 25 | Padhan, S. R., Jat, S. L.*, Singh, A. K., Parihar, C. M., Pooniya, V., Kumar, S., Meena, M. C., Radheshyam, Kumar, A. and Darjee, S. (2023). Nitrogen dose and placement in conservation agriculture for augmenting crop growth productivity and profitability of Indian mustard (<i>Brassica juncea</i>). <i>Indian Journal of Agricultural Sciences</i> 93(12): 1326-1332. | 6.37 |
| | Patra, S., Parihar, C.M., Mahala, D.M., Singh, D., Nayak, H.S., Patra, K., Reddy, K.S. Pradhan, S. and Sena, D.R., (2023) Influence of long-term tillage and diversified cropping systems on hydro-physical properties in a sandy loam soil of North-Western India. <i>Soil and Tillage Research</i> 229, p.105655. | 13.37 |
| | Phogat, B., Sepat, S., Arora, K., Pareek, N.K., Purohit, A. and Beniwal, R. (2023) Effect of different nutrient management practices on root growth and partial factor productivity of rice under zero-tilled upland condition in Eastern India. <i>Frontiers in Crop Improvement</i> 10: 3159-3162 (NAAS Rating: 4.67). | 4.67 |
| 26 | Phogat, B., Sepat, S., Arora, K., Pareek, N.K., Purohit, A., and Beniwal, R. (2023) Effect of balanced nutrient approaches on nutrient uptake and nutrient use efficiency of different rice varieties under zero-tilled upland condition in Eastern India. <i>Biological Forum</i> 15(2): 000-000 (NAAS Rating: 5.0). | 5.11 |
| 27 | Radheshyam, Jat, S. L., Parihar, C.M., Jat, M.L., Bijarniya, D., Kumar, M., Padhan, S.R. and Jat, H.S. (2023) Better crop establishment, residue recycling and diversification for sustaining non-basmati rice (<i>Oryza sativa</i>) in western IGP. <i>Indian Journal of Agricultural Sciences</i> 93(6):621-625. | 6.37 |
| 28 | Roy, P., Bhattacharyya, R., Singh, R. J., Sharma, N. K., Kumar, G., Madhu, M., Biswas, D. R., Ghosh, A., Das, S., Joseph, A.K., Das, T.K., Kumar, S. N., Jat, S. L., Saharawat, Y. and Jha, P. (2023) Impact of agro-geotextiles on soil aggregation and organic carbon sequestration under conservation tilled maize-based cropping system in the Indian Himalayas. <i>Frontiers in Environmental Science-Soil Processes</i> https://doi.org/10.3389/fenvs.2023.1309106 , | 9.35 |
| 29 | Sadhu, L., Kumar, K., Kumar, S., Dass, A., Pathak, R., Bhardwaj, A., Pandey, P., Cuu, N.V., Rawat, B.S., Reddy, V.S. (2023) Chloroplasts evolved an additional layer of translational regulation based on non-AUG start codons for proteins with different turnover rates. <i>Scientific Reports</i> 13, 896. | 11.00 |
| 30 | Sadhukhan, R., Kumar, D., Sen, S., Sepat, S., Ghosh, A., Shivay, Y.S., Meena, M.C., Anand, A., Kumar, R., Sharma, L.D., Patra, K., Pratap, V., Alsuhaibani, A.M., Gaber, A., Hossain, A. (2023) Precision nutrient management in zero-till direct-seeded rice influences the productivity, profitability, nutrient, and water use efficiency as well as the environmental foot print in the indo gangetic plain of India. <i>Agriculture</i> 2023, 13, 784 (NAAS Rating: 10) | 10 |

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| 31 | Saha, I., Jat, S. L., Singh, P., Padhan, S. R., Radheshyam, Mandal, A., Ramniwas, & Karkraliya, M. (2023). Influence of planting density and <i>nitrogen</i> management on growth and productivity of maize in eastern India. <i>Maize Journal</i> , 12(1), 45–51. | 3.72 |
| 32 | Sepat, S., Phogat, B., Kumar, D. and Meena, S.L. (2023) Assessment of precise nutrient management through nutrient expert on productivity and profitability of zero-till maize. <i>Indian Journal of Agronomy</i> 68(4):38-44. (NAAS Rating: 5.55). 4 marks | 5.55 |
| 33 | Sethi, M., Singh, A., Garg, M., Chunduri, V., Kumar, P., Devi, V., Hossain, F., Phagna, R.K., Gupta, M., Chaudhary, D.P. (2023) Elucidation of zeinsi, soforms associated with high protein quality traits for targeted improvement in maize-based nutrition. <i>Cereal Chemistry</i> . https://doi.org/10.1002/cche.10723 (First published: 10 October 2023) | 8.53 |
| 34 | Sethi, M., Saini, D.K., Devi, V., Kaur, C., Singh, M.P., Singh, J., Pruthi, G., Kaur, A., Singh, A. and Chaudhary, D.P. (2023) Unraveling the genetic frame work associated with grain quality and yield-related traits in maize (<i>Zea mays</i> L.) <i>Front Genet.</i> 14:1248697. doi: 10.3389/fgene.2023.1248697 | 10.40 |
| 35 | Sharma, J., Sharma, S., Krishna, S.K., Raigar, O.P., Chayanika, L., Saini, D.K., Kumar, S., Singh, A., Das, A.K., Sharma, P., and Kumar, R. (2023) Unraveling the genomic land scape of silage quality traits in maize (<i>Zea mays</i> L.). <i>The Crop Journal</i> . (Published online). https://doi.org/10.1016/j.cj.2023.10.007 . | 10.65 |
| 36 | Sharma, P., Singh N., Kamboj, M.C. and Kumar, R. (2023) Understanding the genetics of important quality traits in maize (<i>Zea mays</i>) using diverse germplasm by generation mean analysis. <i>AATCC.Vol.11 (4):1-7</i> . | # |
| 38 | Singh, A., Karjagi, C.G., Kaur, S., Jeet, G., Bhamare, D., Gupta, S., Kumar, S., Das, A., Gupta, M., Chaudhary, D.P., Bhushan, B., Jat, B.S., Kumar, R., Dagla, M.C. and Kumar, M. (2023) Characterization of phi112, a Molecular Marker Tightly Linked to the o2 Gene of Maize, and Its Utilization in Multiplex PCR for Differentiating Normal Maize from QPM. <i>Genes</i> , 14, 531. https://doi.org/10.3390/genes14020531 | 10.14 |
| 39 | Singh, V., Sepat, S., Singh, J., Gautam, A. and Aulakh, G. S. (2023) Effect of nitrogen levels and weed management on weed flora and yield of direct-seeded rice (<i>Oryza sativa</i>) in southern part of Punjab. <i>Indian Journal of Agricultural Sciences</i> 93 (10): 1055–1060 (NAAS Rating: 6.37). | 6.37 |
| 40 | Soujanya, P.L., Sekhar, J.C., Karjagi, C.G., Ratnavathi, C.V., Venkateswarlu, R., Yathish, K.R., Suby, S.B., Sunil, N., Rakshit, S. (2023) Role of morphological traits and cell wall components in imparting resistance to pink stem borer, <i>Sesamia inferens</i> Walker in maize. <i>Frontiers in Plant Science</i> , 14. | 12.63 |
| 41 | Venadan, S., Das, A.K., Yathish, K.R., Chaudhary, D.P., Arora, A., and Rakshit, S. (2023) Variability for kernel starch components in Indian maize germplasm and identification of polymorphic molecular marker for selected waxy maize <i>genotypes</i> . <i>Cereal Research Communications</i> . https://doi.org/10.1007/s42976-023-00449-4 | 7.24 |

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