

Sl. No	RESEARCH PAPERS	NAAS Rating
1	Anilkumar, C., Sah, R. P., Muhammed Azharudheen, T. P., Behera, S., Mohanty, S. P., Anandan, A., Marndi, B. C., & Samantaray, S. (2024). Integrating multi-trait genomic selection with simulation strategies to improve grain yield and parental line selection in rice. <i>Annals of Applied Biology</i> , 1–12. https://doi.org/10.1111/aab.12964 .	8.60
2	Arra, Y., Loo, E. P., Devanna, B. N., Stiebner, M., & Frommer, W. B. (2024). A Step-by-step Protocol for Crossing and Marker-Assisted Breeding of Asian and African Rice Varieties. <i>Bio-protocol</i> , 14(18), e5069.	6.1
3	Basak, N., Kumar, G., Sanghamitra, P., Sarkar, S., Pradhan, S.K., Sabarinathan, S. (2024). Effect of pigmentation on physical, phytochemical and antioxidant properties of traditional rice landraces from Odisha region (India). <i>Indian Journal of Traditional Knowledge</i> , 23(7): 609-618.	6.80
4	Behera, L., Samal, K.C., Parmeswaran, C., Agrawal, P.K., Achary, V.M.M., Dash, M., Dwibedi, S.K., Bhol, R.K., Kherawat, B.S., Chung, S.M. and Siddiqui, M.H., (2024). In silico analysis and designing gRNA constructs for the precise modification of the OsTMS5 gene in rice (<i>Oryza sativa</i> L.): a comprehensive study and construct development for crop improvement. <i>Cereal Research Communications</i> , pp.1-24.	7.60
5	Behura, A., Parameswaran, C., Prabhukarthikeyan, S.R., Pradhan, C., Parida, M., Keerthana, U., Raghu, S., Mohapatra, S.D. and Samantaray, S. (2024). Unravelling genetic diversity and population structure of <i>Sarocladiumoryzae</i> causing sheath rot disease in rice using hyper-variable SSR markers. <i>Physiological and Molecular Plant Pathology</i> , 130, p.102245.	8.70
6	Bharti, P., Mohapatra, M., Sah, R. P., Pradhan, A., Priyadarsani, S., & Rayaguru, K. (2024). Effect of green extraction techniques on the quality and functional attributes of protein isolates from cereals and pseudo cereals: A review. <i>International Journal of Food Science & Technology</i> , 59(11), 8045-8057. https://doi.org/10.1111/ijfs.17535 .	9.30
7	Bhuyan, S.S., Barik, D.P., Dash, B., Rout, P., Pattnaik, S.S., Verma, R., Katara, J.L., Parameswaran, C., Devanna, B.N., Sahoo, R.K. and Mishra, A., (2024). Assessment of genetic diversity in androgenic-based doubled haploid-derived improved restorer lines of indica rice. <i>Journal of Crop Science and Biotechnology</i> , 27(2), pp.211-223.	Non rated
8	Chandrasekhar, M., Chandrappa, A., Sah, R.P., Azharudheen, M.T., Anandan, A., Behera, S., Mohanty, S.P., Marndi, B.C., Samantaray, S. and Lavanya, G.R., 2024. AMP-PCR-based assay for detection and quantification of genome wide natural methylation in rice. <i>Indian Journal of Genetics and Plant Breeding</i> , 84(04), pp.635-643.	7.00
9	Chidambaranathan, P., Sahu, S., Selvaraj, S., Raj, R., Balasubramaniasai, C., Samantaray, S., Muduli, B.C., Annamalai, A., Meher, J., Chatterjee, D. and Mohanty, S., (2024). Identification of novel marker-trait associations and candidate genes for combined low phosphorus and nitrogen-deficient conditions in rice at seedling stage. <i>Tropical Plant Biology</i> , pp.1-20.	8.00
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12	Habde, S.V., Singh, S.K., Singh, D.K., Singh, A.K., Sah, R.P., Korada, M., Khaire, A.R., Majhi, P.K., Singh, U.M., Singh, V.K., and Kumar, A. (2024). QTL mapping reveals different set of candidate genes governing stable and	7.90

	location specific QTLs enhancing zinc and iron content in rice. <i>Euphytica</i> 220, 179. https://doi.org/10.1007/s10681-024-03433-z .	
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15	Khan, M., Raghu, S., Sah, R.P., Azharudheen, T.M., Moharana, D., Behera, S., Mohanty, P.S., Jeevan, B., Behera, L., Marndi, B.C. and Samantaray, S., (2024). Identification of novel QTL for bakanae disease resistance in non-basmati indica rice. <i>Cereal Research Communications</i> , pp.1-10. https://doi.org/10.1007/s42976-024-00565-9 .	7.60
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17	Kumar R, Das SP, Choudhury BU, Kumar A, Prakash NR, Verma RL, Mishra VK (2024). Advances in genomic tools for plant breeding: harnessing DNA molecular markers, genomic selection, and genome editing. <i>BMC Biol Res</i> 57(1):80. https://doi.org/10.1186/s40659-024-00562-6 .	11.40
18	Lakshmikanth, M. R. ., Mishra, A. ., Singh, P. ., Devanna, B. N. ., Mohanty, S. ., & Verma, R. L. (2024). Molecular profiling of rice (<i>Oryza sativa</i> L.) genotypes using trait-based SNP markers linked to yield under drought condition. <i>Indian Journal of Genetics and Plant Breeding</i> , 84(01), 46–51. https://doi.org/10.31742/ISGPB.84.1.3 .	7.00
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25	Sahoo, B. Nayak, I. Parameswaran, C. Kesawat, M.S. Sahoo, K.K. Subudhi, H.N. Balasubramaniasai, C. Prabhukarthikeyan, S.R. Katara, J.L. Dash, S.K. et al. 2023. A Comprehensive Genome-Wide Investigation of the Cytochrome 71 (OsCYP71) Gene Family: Revealing the Impact of Promoter and Gene Variants (Ser33Leu) of OsCYP71P6 on Yield-Related Traits in Indica Rice (<i>Oryza sativa</i> L.). <i>Plants</i> . 12, 3035. https://doi.org/10.3390/plants12173035 .	10.50
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29	Visakh, R. L., Anand, S., Arya, S. N., Sasmita, B., Jha, U. C., Sah, R. P., and Beena, R. (2024). Rice Heat Tolerance Breeding: A Comprehensive Review and Forward Gaze. <i>Rice Science</i> , 31(4), 375-400. https://doi.org/10.1016/j.rsci.2024.02.004 .	10.80
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