EJPB Vol 13 (3) - 2022

Contents

| S. No. | Title | Page No. | | |
|------------------|---|----------|--|--|
| Research Article | | | | |
| 1. | Multivariate analysis based prediction of phenotypic diversity associated with yield and yield component traits in germplasm lines of rice (<i>Oryza sativa</i> L.) Kasanaboina Krishna, Y. Chandra Mohan, L. Krishna, G.Parimala and R. Jagadeeshwar | 764-771 | | |
| 2. | Targeted editing of <i>OsSWEET13</i>, a bacterial leaf blight susceptible gene in rice using CRISPR tool P. G. Ancydiana, A. Shanthinie, T. Arulganesh, Yaiphabi Kumam, K. K. Kumar, L. Arul, E. Kokiladevi, S. Varanavasiappan, S. Manonmani and D. Sudhakar | 772-779 | | |
| 3. | Microsatellite marker based DNA fingerprinting of cotton (<i>Gossypium spp.</i>) hybrids and their parents H. B. Santosh, Ashwini Bargat, V. Santhy, K. P. Raghavendra, K. R. Kranthi and V. N. Waghmare | 780-789 | | |
| 4. | Genetic diversity analysis using agro-morphological traits of <i>Brassica juncea</i> subspecies rugosa (Paharirai) from North-Eastern Himalayan region Ankur Adhikari, Himanshu Punetha and Usha Pant | 790-799 | | |
| 5. | Evaluation of recombinant inbred lines for low soil phosphorous tolerance derived from Rasi - a low soil phosphorous tolerant variety M. Anila, Archana Giri and R. M. Sundaram | 800-809 | | |
| 6. | GPUF 3: A new high yielding foxtail millet variety (<i>Sateria italica</i>)T. E. Nagaraja, C. Nandini, Sujata Bhat, K. B. Palanna, Prabhu C Ganiger, T. S. Sukanya,H. S. Saritha, S. Gazala Parveen and D. N. Vinutha | 810-819 | | |
| 7. | Genetic variability, correlation and path analysis of upland cotton (<i>Gossypium hirsutum</i> L.) germplasm for seed cotton yield Chossterfield Mawblei, N. Premalatha, S. Rajeswari and A. Manivannan | 820-825 | | |
| 8. | Characterization of pinto and cranberry bean (<i>Phaseolus vulgaris</i> L.) landraces from western Himalayan Kashmir for yield and quality A. Zaffar, P. A Sofi, S. M. Zargar, S. Shafi, S. Fatima, S. Rani and R. Khalid | 826-837 | | |
| 9. | Genetic analysis and heterosis for quality traits in pearl millet [<i>Pennisetum glaucum</i> (L.) R. Br.] M. Bala Barathi and P. Sanjana Reddy | 838-844 | | |
| 10. | Study of gene action in different traits of maize (Zea mays L.) Thokchom Diviya, Umananda Arambam, Sentisuba, Sajal Saha and M. M. Shulee Ariina | 845-855 | | |
| 11. | CO 54 (IET 24313) : An early maturing high yielding rice variety with marketable grain quality suitable for Tamil Nadu K. Mohanasundaram, P. Jeyaprakash, R. Pushpam, K. Ganesamurthy, S. Robin, K. Amudha, S. Manonmani, S. Rajeswari, S. Geetha, K. Ramanathan, R. P. Soundararajan, V. Balasubramani, C. Gopalakrishnan, K. Krishnasurender and G. Senthil Kumar | 856-864 | | |
| 12. | Genetic variability studies in early generation prebreeding restorer germplasm of the cross CBSN 25 x WRM 93-20 R. Sravanthi, D. Kumaresan, R. Saraswathi and N. Sritharan | 865-872 | | |
| 13. | Identification of anaerobic germination tolerant landraces and validation of molecular marker in rice (<i>Oryza sativa</i> L.) G. Mohanapriya, S. Kavitha and S. Manonmani | 873-881 | | |

| 14. | Dapoli 3: A high yielding variety of finger millet | 882-887 |
|-----|---|---------|
| | S. S. Desai, V. V. Dalvi, R. L. Kunkerkar, R. T. Gawade and U. B. Pethe | |
| 15. | Study on combining ability of therapeutic traits in rice grains (Oryza sativa L.) | 888-894 |
| | Ananda Lekshmi. L, S. Geetha, K. Amudha, M. Hemalatha, S. Vinothini Bakya, | |
| | G. Ariharasutharsan, M. Almas Fathima and D. Uma | |
| 16. | Genetic variability and correlation analysis for yield and yield contributing characters in | 895-900 |
| | brinjal (<i>Solanum melongena</i> L.) | |
| | Alan Thomas, Raji Vasudevan Namboodiri, R. Sujatha, K. M. Sreekumar, N. K. Binitha and | |
| | Smriti Varghese | |
| 17. | Stability analysis of yield and yield attributing traits in advanced breeding lines of | 901-909 |
| | cowpea [Vigna unguiculata(L.) Walp.] | |
| | Manish Sharma, M. P. Patel, P. J. Patel and P. R. Patel | |
| 18. | French bean variety Ooty 3 : A high yielding variety suitable for Temperate zones of | 910-917 |
| | Tamil Nadu | |
| | V. P. Santhi, S. Karthikeyan, S. Malathi, P. Raja and B. Anitha | |
| 19. | Hotspot screening of early maturing rice genotypes and genetic variability studies under | 918-926 |
| | sodicity | |
| | N. Selvarani, P. Jeyaprakash, M. Shanmuganathan and D. Janaki | |
| 20. | Analysis of genetic diversity in sesame (Sesamum indicum L.) germplasm for yield and | 927-931 |
| | its attributing traits | |
| | B. P. Shwetha Yadav, V. Thiruvengadam, R. Sasikala and L. Rajendran | |
| 21. | Genetic variability and relatedness among yield characters in rice landraces and | 932-939 |
| | improved varieties | |
| | Gowthami Sanku, S. Juliet Hepziba, A. Sheeba, G. Hemalatha and K. Senthil | |
| 22. | Selection of tomato (Solanum lycopersicum L.) lines for fresh and processing market | 940-946 |
| | through multivariate analysis | |
| | J. Purushothaman, T. Saraswathi, T. Kalaimagal, R. Swarnapriya, M. Karthikeyan and | |
| | A. Anitha | |
| 23. | CFMV 2 (GIRA): A biofortified, high grain and fodder yielding finger millet | 947-958 |
| | (Eleusine coracana L. Gaertn) variety | |
| | Harshal E. Patil, B. K. Patel, Vikas Pali and G. D. Vadodariya | |
| 24. | Genetic variability and diversity analysis in selected rice (Oryza sativa L.) varieties | 959-966 |
| | M. Lakshmi, M. Shanmuganathan, P. Jeyaprakash and T. Ramesh | |
| 25. | Combining ability studies through Line × Tester design in sweet sorghum | 967-973 |
| | (Sorghum bicolor L.) for bioethanol production | |
| | P. Kavya, V. Satyanarayana Rao, J.V. Ramana, B. Sreekanth, Y. Radhakrishna and | |
| | S. K. Naffez Umar | 074.000 |
| 26. | Assessment of genetic variability for seed yield and its components in sesame (Sesamum | 974-982 |
| | <i>indicum</i> L.) based on multivariate analysis | |
| | Bhagyashree Devrao Durge, S. Geethanjali and R. Sasikala | 002 000 |
| 27. | Analysis of genetic variability and correlation for yield and its attributing traits in F_2 | 983-990 |
| | population of rice (<i>Oryza sativa</i> L.) | |
| | M. R. Prajapati, Madhu Bala, V. P. Patel, R. K. Patel, U. S. Sushmitha, A. D. Kyada, | |
| | D. P. Patel, Jwala Pranati and B. Sriram kumar | 001.000 |
| 28. | Genetic variability studies for yield components and fibre quality traits in upland cotton | 991-999 |
| | (Gossypium hirsutum L.) | |
| | V. K. I. Sri Subalakhshmi, S. Rajeswari, N. Premalatha, K. Thirukumaran and | |
| | N. Manikanda Boopathi | |

| 29. | ATL 1: A high yielding kodo millet variety | 1000-1004 |
|-----|--|-----------|
| 20. | A. Nirmalakumari, A. Subramanian, S. Geethanjali, R. Kanchanarani, P. Parasuraman, | |
| | M. Jayachandran, R. Ravikesavan, M. Rajesh, K. Sivagamy, K. Ananthi, K. Sathiya, | |
| | V. Manimozhi Selvi, B. Meenakumari, M. Madhanmohan, M. Gunasekaran, V. Ambetgar, | |
| | S. Geetha, V. Geethalakhshmi, K. Prabakar and K. S. Subramanian | |
| 30. | Genetic diversity study in soybean [Glycine max L. Merrill] based on agro- | 1005-1011 |
| | morphological characters | |
| | Kolisetti Lakshmi Sai Mounika, Th. Renuka Devi, H. Nanita Devi, Kammela Seetha Ramaiah, | |
| | Masadi Sunil Kumar, Bireswar Sinha, and N. Gopimohan Singh | |
| 31. | Co 12009: Midlate sugarcane variety for tropical India | 1012-1018 |
| | S. Alarmelu, G. Hemaprabha and R. M. Shanthi | |
| 32. | Assessment of genetic diversity based on agro-morphological traits in Indian mustard | 1019-1023 |
| | [Brassica juncea (L.) Czern. & Coss.] germplasm | |
| | Bharath Kumar Margam, Nihar Ranjan Chakraborty and Abhishek Sadhu | |
| 33. | Identification of multi-trait donor sources in groundnut (Arachis hypogaea L.) for yield | 1024-1035 |
| | and seed quality improvement | |
| | B. Sukrutha, Srividhya Akkareddy, L. N. Vemireddy, A. R. Nirmal Kumar, P. Latha and | |
| | K.V. Nagamadhuri | |
| 34. | Combining ability analysis in sunflower (Helianthus annuus L.) | 1036-1041 |
| | R. Dhanalakshmi, N. Manivannan, PL. Viswanathan, R. Sasikala, L. Rajendran and | |
| | M. Senthivelu | |
| 35. | Genetic analysis using Griffing's approach for forage yield and components in sorghum | 1042-1050 |
| | C. R. Chudasama, R. A. Gami, R. N. Patel and M. A. Patel | |
| 36. | Molecular analysis through RAPD markers in greengram genotypes | 1051-1056 |
| | G. Kalaiyarasi and S. Padmavathi | |
| 37. | Rice CO 53: A high yielding drought tolerant rice variety for drought prone districts of | 1057-1065 |
| _ | Tamil Nadu | |
| | S. Robin, P. Jeyaprakash, R. Pushpam, K. Amudha, R. Saraswathi, K. Ganesamurthy, | |
| | S. Muthuramu, P. Yogameenakshi, R. Arulmozhi, S. Radhamani, V. Ravichandran, | |
| | S. Suresh, A. Ramanathan, R. P. Soundararajan, V. Balasubramani, C. Gopalakrishnan, | |
| | K. Krishnasurender, G. Senthil Kumar and S. Geetha | |
| 38. | Gene action and contribution of different traits for enhanced green fodder yield and | 1066-1076 |
| | quality in pearl millet napier interspecific hybrids | |
| | K. Keerthana, K. N. Ganesan, K. Iyanar, S.D. Sivakumar and P. Jeyakumar | |
| 39. | Scrutiny of gene action underlying yield contributing traits and earliness in blackgram | 1077-1083 |
| | (Vigna mungo (L.) Hepper) | |
| | A. Kavitha Reddy, D. Mohan Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and | |
| | B. V. Bhaskara Reddy | |
| 40. | Genetic variability, correlation studies, path coefficient analysis and genetic divergence | 1084-1091 |
| | in horsegram (Macrotyloma uniflorum (Lam.) Verdc.) | |
| | Swathy Sivan, K. Arya, Reshma S Nair, G. Gayathri | |
| 41. | Meristem tip culture in <i>Phragmites australis</i> and genetic fidelity study | 1092-1098 |
| | using SRAP markers | |
| | C. Jayabose, V. Anusheela, A. Kaleeswari, D. Neelamathi, V. Raffee Viola and | |
| | R. Valarmathi | |
| 42. | Variability, correlation and path analyse in segregating population of groundnut | 1099-1104 |
| | (Arachis hypogaeae L.) | |
| | P. Ananth Kannappan, PL. Viswanathan, N. Manivannan and L. Rajendran | |

| 43. | TRY 4: A high yielding, mid early sodicity tolerant rice variety suited to Tamil Nadu S. Geetha, A. P. Kirubakaran Soundaraj, PL. Viswanathan, S. K. Ganesh, T. Thirumurugan, P. Jeyaprakash, A.Subramanian, S. Chitra, S. Avudaithai, S. Nithila, K.Geetha, T. Sherene Jenita Rajammal, T. Senguttuvan, S. Sheeba Joyce Roseleen, P. T. Sharavanan, T. Evera and P.Masilamani | 1105-1121 | | |
|---------------|---|-----------|--|--|
| Research Note | | | | |
| 44. | Genetic variability for plant type and seed yield components among recombinant inbred | 1122-1125 | | |
| | lines in pigeonpea | | | |
| | Suman Parre and R. S. Raje | | | |
| 45. | CKMV 1: A Short duration, high yielding, drought tolerant, non lodging kodomillet | 1126-1131 | | |
| | variety suitable for rainfed cultivation in India | | | |
| | A. Nirmalakumari, A. Subramanian, S. Geethanjali, R. Kanchanarani, M. Rajesh, K. Sathiya, | | | |
| | V. Manimozhi Selvi, N. Senthil, V. Ambethgar, S. Geetha, K. S. Subramanian, VA Tonapi | | | |
| 46. | Genetic variability among B & R lines on <i>milo</i> and <i>maldandi</i> cytoplasm across the years | 132-1136 | | |
| | in rabi sorghum [Sorghum bicolor (L.) Moench] | | | |
| | Lokesh Kumar Verma and B. D. Biradar | | | |
| 47. | Study on the heterosis for yield and yield contributing traits in sesame | 1137-1143 | | |
| | (Sesamum indicum L.) | | | |
| | P. L. Tavadare, A. M. Misal, R. G. Gawali and A. R. Talape | | | |
| 48. | Genetic variability for quantitative and quality traits in cowpea [Vigna unguiculata (L.) | 1144-1149 | | |
| | Walp] | | | |
| | Shrikant Wadghane, Adhir Aher, Rajesh Dhandore, Yogesh Sargar and Sonali Jadhav | | | |
| 49. | VL Mandua 380: A medium maturing, high yielding and blast tolerant finger millet | 1150-1155 | | |
| | cultivar for rainfed organic agro-ecology of hills | | | |
| | D. C. Joshi, Salej Sood, Arun Gupta, R. K. Khulbe, M. S. Bhinda, B. M. Pandey, R. P. Meena | | | |
| | and Lakshmi Kant | | | |
| 50. | Genetic divergence, trait association and path analysis studies in browntop millet | 1156-1161 | | |
| | germplasm | | | |
| | M. Shanthi Priya, L. Madhavilatha and M. Hemanth Kumar | | | |