

## Contents

S. No.	Title	Page No.
<b>Research Article</b>		
1.	Rice ADT 51 - A high yielding long duration rice variety suitable for <i>Samba</i> season in Cauvery Delta Zone of Tamil Nadu <b>R. Suresh, R. Parthasarathy, R. Vaithialingam, D. Sassikumar, R. Saraswathi, S. Santha and R. Pushpa, S. Suresh, K. Rajappan, K. Subramanian and V. Ravi</b>	721-726
2.	Evaluation of drought tolerance indices for identification of drought tolerant and susceptible genotypes in wheat ( <i>Triticum aestivum</i> L.) <b>Arun Kumar, Baudh Bharti, Jaydev Kumar, Santosh G.P. Singh, J. P. Jaiswal and Rajendra Prasad</b>	727-734
3.	Performance and evaluation of turmeric ( <i>Curcuma longa</i> L.) genotypes based on quantitative traits for tropical regions of Tamil Nadu <b>R. Suresh, A. Ramar, S. Balakrishnan, S. Rajeswari and N. Kumaravadivel</b>	735-741
4.	Hierarchical cluster analysis in barley genotypes to delineate genetic diversity <b>Yogender Kumar, Ram Niwas, Somveer Nimbale and M.S. Dalal</b>	742-748
5.	Genetic diversity analysis in bread wheat ( <i>Triticum aestivum</i> L.) under Gangetic Alluvium Zone of West Bengal <b>Tatini Tapaswini, Nitesh Kumar, Subhra Mukherjee, Prabir Kumar Bhattacharyya and Anirban Maji</b>	749-754
6.	Protocol optimization for rapid and efficient callus induction and <i>in-vitro</i> regeneration in rice ( <i>Oryza sativa</i> L.) cv. CO 51 <b>S. Shweta, S. Varanavasiappan, K. K. Kumar, D. Sudhakar, L. Arul, and E. Kokiladevi</b>	755-759
7.	Genetic diversity analysis of geographically diverse landraces and wild accessions in sorghum <b>Victor Allan, S. Geetha, Mani Vetriventhan and Vânia C R Azevedo</b>	760-764
8.	Line x tester analysis for yield and quality characters in Natu tobacco ( <i>Nicotiana tabacum</i> L.) <b>Y. Bharathi, S. Jaffarbasha and J. Manjunath</b>	765-768
9.	Estimation of genetic variability, heat susceptibility index and tolerance efficiency of wheat ( <i>Triticum aestivum</i> L.) for timely and late sown environments <b>Padma Thakur, Lal Chand Prasad, Ravindra Prasad, Kailash Chandra and K. Rashmi</b>	769-775
10.	Molecular diversity analysis in rice ( <i>Oryza sativa</i> L.) using SSR markers <b>Shikha Tripathi, S. K. Singh, Vishal Srivashtav, Amrutlal R Khaire , Prudhviraaj Vennela and D. K. Singh</b>	776-782
11.	Screening of Advanced Breeding Lines (ABLs) of green gram [ <i>Vigna radiata</i> (L.) Wilczek] in F <sub>6</sub> generation for reaction to Mungbean Yellow Mosaic Virus (MYMV) disease under field condition <b>L. S. Abhisheka, Suma C. Mogali and Prasanta Kumar Majhi</b>	783-788
12.	Evaluation of desi cotton ( <i>Gossypium arboreum</i> L.) germplasm using qualitative descriptors and principal component analysis <b>A. Krishnamoorthi, S. Hari Ramakrishnan, N. Premalatha, N. Manikanda Boopathi and V. Thiruvengadam</b>	789-795
13.	Relationship between yield and its component traits for enhancing grain yield in single cross hybrids of maize ( <i>Zea mays</i> L.) <b>S. Devasree, K. N. Ganesan, R. Ravikesavan, N. Senthil and V. Paranidharan</b>	796-802
14.	Efficiency and effectiveness of physical and chemical mutagens in cowpea ( <i>Vigna unguiculata</i> (L.) Walp) <b>S. Priyadharshni , S. Saravanan, K. Elanchezyan, A. Kavitha Pushpam and M. Arumugam Pillai</b>	803-808
15.	Assessment of genetic variability for growth, floral, yield and its component traits in coconut ( <i>Cocos nucifera</i> L.) <b>V. Sivakumar, A. Subramanian, S. Geethanjali, S. Praneetha and H. P. Maheswarappa</b>	809-813

16.	Genetic variation among biparental progenies in okra [ <i>Abelmoschus esculentus</i> L. (Moench)] using coefficient of racial likeness and Mahalanobis D <sup>2</sup> statistics <b>Olaniran, Deborah Doyinsola, Olayiwola, Muyideen Oluseyi, Nassir, Adesola Lateef and Ariyo, O.J</b>	814-821
17.	Assessing genetic diversity of maize genotypes for transpiration efficiency <b>N. Jyothi Lakshmi, M. Vanaja, S. K. Yadav, Amol Patil, Ch.Ram Prasad, P. Sathish, K. Salini, Arun K. Shanker and M. Maheswari</b>	822-830
18.	Heterosis studies for yield and fibre quality traits in American cotton ( <i>Gossypium hirsutum</i> L.) <b>K. Surya Naik, Y. Satish and J. Dayal Prasad Babu</b>	831-835
19.	Estimating genetic divergence in rice ( <i>Oryza sativa</i> L.) using D <sup>2</sup> analysis <b>N. D. Rathan, S. K. Singh, R. K. Singh and D. K. Singh</b>	836-840
20.	SSR markers for grain iron zinc and yield-related traits polymorphic between Samba Mahsuri (BPT5204) and a wild rice <i>Oryza rufipogon</i> <b>Gowthami Chandu, Krishnam Raju Addanki, Divya Balakrishnan, Satendra K Mangrauthia, P. Sudhakar, A. Krishna Satya and Sarla Neelamraju</b>	841-847
21.	Testing the efficacy of the herbicide tolerant rice mutant (Robin) under direct seeded cultivation <b>S. R. Mythili, S. Manonmani, R. Pushpam and M. Raveendran</b>	848-853
22.	Genetic behavior of induced translocation heterozygote in <i>Artemisia annua</i> L. <b>Girjesh Kumar and Rajani Singh</b>	854-859
23.	Understanding the role of different biochemical compounds responsible for inducing resistance in pigeon pea towards <i>Helicoverpa armigera</i> infestation <b>Mareyam Mukhtar, L. Arul, P. Jayamani and E. Kokiladevi</b>	860-66
24.	Investigation on frequency distribution of traditional rice landraces for drought tolerance at seedling stage <b>R. Anupriya, M. Arumugam Pillai, A. Senthil, D. Rajakumar and Asish K. Binodh</b>	867-874
25.	Mutagenic efficiency and effectiveness of gamma rays and EMS in groundnut ( <i>Arachis hypogaea</i> L.) <b>N. G. Manjunath, S. Saravanan, R. Sushmitha, M Arumugam Pillai, J. Sheela and D. Shoba</b>	875-880
26.	Studies on genetic parameters, correlation and path analysis for yield attributes and Iron content in a backcross population of rice [ <i>Oryza sativa</i> (L.)] <b>M. Prasannakumari, M. Akilan, S. Kalaiselvan, A. Subramanian, P. Janaki and P. Jeyaprakash</b>	881-886
27.	Evaluation of Backcross Inbred Lines (BILs) introgressed with drought tolerant QTLs using Polyethylene Glycol (PEG) induced water stress in rice <b>Himanshi Swain, M. Valarmathi, V. Balasubramani, N. Manikanda Boopathi and M. Raveendran</b>	887-895
28.	Genetic uniformity of varieties and an assessment on the diversity among the elite varieties of rice ( <i>Oryza sativa</i> L.) <b>Neethu Francis and D. Packiaraj</b>	896-900
29.	Combining ability and gene action analysis for yield and yield attributing traits in rice ( <i>Oryza sativa</i> .L) <b>L. Ananda Lekshmi, S. Geetha, K. Amudha, R. Muthuvijayaragavan and D. Uma</b>	901-906
30.	Marker assisted stacking/pyramiding of stem rust, leaf rust and powdery mildew disease resistance genes ( <i>Sr2/Lr27/Yr30</i> , <i>Sr24/Lr24</i> and <i>Sr36/Pm6</i> ) for durable resistance in wheat ( <i>Triticum aestivum</i> L.) <b>R. Aravindh, M. Sivasamy, K. Ganesamurthy, P. Jayaprakash, C. Gopalakrishnan, M. Geetha, R. Nisha, P. Shajitha, John Peter, P. A.Sindhu and V. K. Vikas</b>	907-915
31.	Shortlisting putative candidate genes underlying qDTY <sub>1.1</sub> , a major effect drought tolerant QTL in rice ( <i>Oryza sativa</i> L.) <b>Krishna Sai Karnatam, Deepa Jaganathan, Kambale Rohit Dilip, N Manikanda Boopathi and Raveendran Muthurajan</b>	916-924

32.	Assessment of genetic variability for yield and component traits in groundnut ( <i>Arachis hypogaea</i> L.) germplasms in sodic and normal soil condition <b>N. Annai Pappammal, Venugopal Rajanbabu, A. Subramanian, S. Nithila and A. Mothilal</b>	925-932
33.	Genetic variability and frequency distribution studies in F <sub>2</sub> population involving traditional variety mappillai samba <b>T. C. Nikhitha, R. Pushpam, M. Raveendran and S. Manonmani</b>	933-938
<b>Research Note</b>		
34.	Genetic assessment of relationship for leaf shape towards yield traits among F <sub>5</sub> progenies of interspecific cross derivatives of <i>Vigna radiata</i> x <i>Vigna mungo</i> <b>S. Ragul, N. Manivannan and A. Mahalingam</b>	939-944
35.	Screening of tomato hybrids for bacterial wilt ( <i>Ralstonia solanacearum</i> ) resistance under field condition <b>Sanket Kumar, Vikas Singh, R. K. Dubey and Mukul Kumar</b>	945-949
36.	Heterosis for yield and yield contributing traits in sunflower ( <i>Helianthus annuus</i> L.). <b>B. P. Ailwar, M. K. Ghodke and R. G. Tathe</b>	950-953
37.	Association analysis of morpho-physiological traits in vegetable cowpea ( <i>Vigna unguiculata</i> L. Walp.) <b>D. H. Detroja, D. M. Thakor, V. G. Baldaniya, N. V. Soni and P. C. Patel</b>	954-959
38.	Estimation of heterosis for seed yield and its component traits in red sweet pepper ( <i>Capsicum annuum</i> L. var <i>grossum</i> Sendt) grown under protected condition <b>Cherry Nalwa and Manish Kumar</b>	960-964
39.	Mean performance of parents and hybrids for growth and yield attributing traits in ridge gourd ( <i>Luffa acutangula</i> (L.) Roxb.) <b>D. Srikanth, C. Venkata Ramana, G. Kranthi Rekha, D. Ratna Babu, K. Umakrishna and L. Naram Naidu</b>	965-968
40.	Studies on character association and path analysis studies for yield, grain quality and nutritional traits in F <sub>2</sub> population of rice ( <i>Oryza sativa</i> L.) <b>S. K. Singh, Sonali Habde, D. K. Singh, Amrutlal Khaire, Korada Mounika and Prasanta Kumar Majhi</b>	969-975
41.	Genetic diversity study in germplasm lines of foxtail millet ( <i>Setaria italica</i> (L.) Beauv) <b>G. Anand, S. Thamizhmani and C. Vanniarajan</b>	976-980
42.	Studies on genetic variability correlation and path analysis in upland cotton <b>M. Gnanasekaran, K. Thiyagu and M. Gunasekaran</b>	981-986