

## Contents

S. No.	Title	Page No.
<b>Research Article</b>		
1.	<b>CO18: A high yielding with extra long staple <i>Gossypium barbadense</i> cotton variety suitable for Central zone</b> P. Vindhiyavarman, M. Gunasekaran, N. Premalatha, M. Kumar, L. Mahalingam, N. Meenakhshiganesan, S. Rajeswari, K. Ganesamurthy and S. Geetha	1054-1059
2.	<b>Genome editing of elite rice cultivar, CO51 for bacterial leaf blight resistance</b> T. Arulganesh, Yaiphabi Kumam, K. K. Kumar, L. Arul, E. Kokiladevi, S. Nakeeran, S. Varanavasiappan, S. Manonmani and D. Sudhakar	1060-1068
3.	<b>Genetic diversity analysis in <i>Bt</i> introgressed and non-<i>Bt</i> lines of upland cotton (<i>Gossypium hirsutum</i> L.)</b> Ashwini N R Samak, S. Rajeswari, R. Ravikesavan, Subbalakshmi Lokanadhan, N. Ganapathy and A.V. Kini	1069-1074
4.	<b>Genetic analysis in sunflower germplasm across the four states falling under the semi-arid environments of India</b> M. Y. Dudhe, H. P. Meena, M. Sujatha, S. B. Sakhre, M. K. Ghodke, A. M. Misal, S. Neelima, V. V. Kulkarni, Praduman Yadav, A. R. G. Ranganatha and A. Vishnuvardhan Reddy	1075-1084
5.	<b>A new high yielding black <i>kolukattai</i> grass variety CO 2 (<i>Cenchrus setigerus</i>) suitable for Pasture lands</b> A. Kalamani, C. Babu, K. Iyanar, R. Sudhagar, S. D. Sivakumar, T. Ezhilarasi, K. Ganesamurthy and S. Geetha	1085-1090
6.	<b>Screening of rice landraces for potential drought tolerance through comparative studies of genetic variability and principal component analysis</b> Sujan Acharjee, Nihar Ranjan Chakraborty and Sankar Prashad Das	1091-1101
7.	<b>Genetic variability, character association and diversity studies in brinjal (<i>Solanum melongena</i> L.)</b> Satyaprakash Barik , Naresh Ponnamp, G.C. Acharya , T.H. Singh, Manasi Dash Gouri Shankar Sahu and Subrat Kumar Mahapatra	1102-1110
8.	<b>Combining ability estimates and heterosis analysis on major yield attributing traits and lint quality in American cotton (<i>Gossypium hirsutum</i> L.)</b> S. Mudhalvan, S. Rajeswari, L. Mahalingam, P. Jeyakumar, M. Muthuswami and N. Premalatha	1111-1119
9.	<b>Genetic divergence analysis in maintainer (B) and restorer (R) lines of pearl millet (<i>Pennisetum glaucum</i> (L.) R. Br.)</b> P. Saikumar, M. Shanthi Priya, P. Shanthi and P. Latha	1120-1126
10.	<b>Variability and plus tree selection in <i>Swietenia macrophylla</i>, from Kerala, South India</b> Aleena Thomas Moor, A. V. Santhoshkumar, T. K. Hrideek, E.V. Anoop and Manju Elizabeth	1127-1133
11.	<b>Genetic parameters, diversity and character association studies in germplasm lines of castor (<i>Ricinus communis</i> L.)</b> K. Sadaiah, G. Neelima, Ch. V. Durga Rani, V. Divya Rani, G. Madhuri, N. Nalini, M. Sujatha, V. Gouri Shankar, M. Parimala Kumar, C. Lavanya, J. Jawahar Lal and Ch. Damodar Raju	1134-1141
12.	<b>Comparative diversity analysis of cowpea genotypes using multivariate approaches</b> A. R. Chaudhary, S. D. Solanki and P. M. Rahevar	1142-1147
13.	<b>Genetic analysis of rice germplasm suitable for direct and transplanted establishments</b> N. S. Rudresh, P. Jayamani, E. Vijayakumar, S. Manonmani, Mahantesh Gangashetti, P. Jeyakumar and K. R. Latha	1148-1156
14.	<b>Genetic relatedness and variability studies in greengram (<i>Vigna radiata</i> (L.) Wilczek)</b> T. Sineka, E. Murugan, A. Sheeba , G. Hemalatha and C. Vanniarajan	1157-1162

15.	<b>Testing authenticity of certified paddy seed with user friendly morpho-molecular tool- kit</b> Parthopratim Buragohain and Sharmila Dutta Deka	1163-1169
16.	<b>Genetic variability and correlation for nut and yield characters in arecanut (<i>Areca catechu</i> L.) germplasm</b> D. G. Kiran Kumar, D. Lakshmana, N. R. Nagaraja, Sadashiv Nadukeri and M. Ganapathi	1170-1177
17.	<b>Parent progeny regression analysis in segregating generations of drought QTLs pyramided rice lines (<i>Oryza sativa</i> L.)</b> F. D. Prisca Seeli, S. Manonmani, R. Pushpam and M. Raveendran	1178-1188
18.	<b>Genetic studies on diversity and variability in dolichos bean (<i>Lablab purpureus</i> L.)</b> K. Geetha and S. Divya	1189-1194
19.	<b>Assessment of yield components and fibre quality traits in an introgressed population derived from <i>Gossypium hirsutum</i> and <i>G. barbadense</i></b> S. M. Palve, V. N. Waghmare, P. K. Mandhyan and N. Kate	1195-1200
20.	<b>Genetic variability and character association studies for quality attributing traits in rice (<i>Oryza sativa</i> L.)</b> Anjan Roy, Lakshmi Hijam and Suvendu Kumar Roy	1201-1208
21.	<b>Genotype x Environment interaction for seed cotton yield and component traits in upland cotton (<i>Gossypium hirsutum</i> L.)</b> H. B. Kumbhalkar, V. L. Gawande, S. B. Deshmukh, Vinita Gotmare and V. N. Waghmare	1209-1217
22.	<b>Phenotypic diversity and clustering of germplasm accessions of cashew for utilization and conservation</b> A.C. Asna, Jalaja S Menon and M.S. Smitha	1218-1226
23.	<b>Estimation of heterosis for yield related traits and grain Zinc in rice (<i>Oryza sativa</i> L.)</b> S. Rudresha Naik, S. K. Singh, D. K. Singh, A. R. Khaire, Mounika Korada, Sonali Habde and Prasanta Kumar Majhi	1227-1235
24.	<b>Genetic variability of quantitative characters over diverse environments in maize inbred lines</b> M. Gokulakrishnan, J. M. Patel, R. M. Patel, D. R. Chaudhary and Gauravrajsinh K. Vaghela	1236-1243
25.	<b>Estimation of genetic parameters and gene action among crosses of blackgram (<i>Vigna mungo</i> (L.) Hepper) for seed yield and its component traits</b> S. Ragul, N. Manivannan., K. Iyanar , N. Ganapathy and G. Karthikeyan	1244-1248
26.	<b>D<sup>2</sup> analysis for assessing genetic diversity in okra (<i>Abelmoschus esculentus</i> (L) Moench)</b> S. Nanthakumar, C. Kuralarasu and A. Gopikrishnan	1249-1253
27.	<b>Association analysis in chia (<i>Salvia hispanica</i> L.)</b> Antra Thada, B. R. Choudhary and Rahul Bhardwaj	1254-1260
28.	<b>Molecular characterization of traditional mango germplasm of coastal Andhra Pradesh using RAPD markers</b> A. Himabindu and M. Rajasekhar	1261-1267
29.	<b>Estimation of genetic distances among various genotypes of blackgram (<i>Vigna mungo</i> (L.) Hepper) using D<sup>2</sup> statistics</b> Md. Ayesha, D. Ratna Babu, A. Prasanna Rajesh, Lal Ahmed Md and V. Manoj Kumar	1268-1274
30.	<b>Genetic diversity analysis in <i>Solanum surattense</i> – An endangered medicinal plant</b> M. Boomiga, J. Suresh, L. Nalina, M. Kumar, R. Gnanam, K. Rajamani and D. Uma	1275-1280
31.	<b>Comparative performance of elite inbred lines with alien cyto sterile sources and their corresponding hybrids in sunflower (<i>Helianthus annuus</i> L.)</b> Manish Sharma and Y. G. Shadakshari	1281-1291
32.	<b>Studies on combining ability and heterosis for yield and drought tolerance traits in rice (<i>Oryza sativa</i> L.)</b> A. Ambikabathy, S. Banumathy, R. P. Gnanamalar, P. Arunchalam, P. Jeyaprakash, R. Amutha and N. S. Venkatraman	1292-1299

33.	<b>Genetic mapping and validation of SSR markers linked to leaflet shape in soybean using a recombinant inbred line population</b> Sudhir Kumar Gupta, Sumit Totade and J. G. Manjaya	1300-1307
34.	<b>VL <i>Mandua</i> 382: The first early maturing, white seeded finger millet cultivar suitable for rainfed organic agro-ecology of Himalayan region</b> D. C. Joshi, Salej Sood, Arun Gupta, R. K. Khulbe, B. M. Pandey, R. S. Pal, M. S. Bhinda and Lakshmi Kant	1308-1313
35.	<b><i>Per se</i> performance and diversity analysis in turmeric (<i>Curcuma longa</i> L.) genotypes for plant and rhizome yield characters</b> K. Vithya, K. Venkatesan, B. Senthamizh Selvi, S. Manonmani and E. Kokiladevi	1314-1320
36.	<b>A dual purpose, high yielding little millet (<i>Panicum sumatrense</i>) variety 'GV-4' (Ambika) for cultivation in Gujarat</b> Patil, E. Harshal, P. A. Vavdiya, G. D. Vadodariya and B. K. Patel	1321-1330
37.	<b>Gene action for yield and yield contributing traits in blackgram through generation mean analysis</b> P. Sathya, N. Manivannan, PL. Viswanathan, N. Ganapathy and G. Karthikeyan	1331-1336
38.	<b>Genetic diversity studies in kodo millet (<i>Paspalum scrobiculatum</i> L.)</b> V. R. Suthediya, S. S. Desai, U. B. Pethe, K. V. Naik, S. G. Mahadik and S. Pendyala	1337-1344
39.	<b>Breeding potential of crosses derived from genetically divergent parents differing for yield and its attributes in cowpea [<i>Vigna unguiculata</i> (L.) Walp]</b> H. R. Shwetha, N. Marappa, V. Ramachandra, Veeresh Angadi, Keerthi Anna Gowda Patil, S. Ramesh, Anita Peter and D.L. Savithramma	1345-1350
40.	<b>Combining ability and heterosis studies in different crop sites for yield and yield contributing traits in sorghum (<i>Sorghum bicolor</i> (L.) Moench)</b> Saikiran Veldandi, D. Shivani, S. Maheswaramma, K. Sujatha, K. Sravanthi, S. Ramesh, K. N. Yamini and C.V. Sameer Kumar	1351-1358
41.	<b>Nature of gene action for kernel yield and its component traits in maize (<i>Zea mays</i> L.)</b> N. Sabitha, D. Mohan Reddy, D. Lokanath Reddy, M. Hemanth Kumar, P. Sudhakar and B. Ravindra Reddy	1359-1366
42.	<b>Exploring variability and genetic diversity among rice genotypes in Eastern Uttar Pradesh</b> Pratibha Singh, S. K. Singh, Mounika Korada, Amrutlal Khaire, D. K. Singh, Sonali Vijay Habde, Prasanta Kumar Majhi and Rudresha Naik	1367-1374
43.	<b>VBN 3: A new high yielding multiple disease resistant cowpea variety</b> S. K. Ganesh, D. Packiaraj, S. Geetha, R. P. Gnanamalar, N. Manivannan, A. Mahalingam, S. Lakshmi Narayanan, V. K. Satya, Zadda Kavitha, K. Ganesamurthy and V. Ravi	1375-1379
44.	<b>Combining ability studies for lodging resistance and yield traits in rice</b> B. Keerthiraj, S. Biju, Jiji Joseph and Anju M. Job	1380-1386
45.	<b>Estimation of gene action, combining ability and heterosis for yield and yield contributing traits in sorghum [<i>Sorghum bicolor</i> (L.) Moench]</b> P. Vinoth, B. Selvi, N. Senthil, K. Iyanar, S. Jeyarani and M. Santhiya	1387-1397
46.	<b>Investigation of population structure and molecular genetic diversity under coastal agro-ecosystem in rice (<i>Oryza sativa</i> L.)</b> S.T. Ponsiva and N. Senthilkumar	1398-1407
47.	<b>Genetic divergence in brinjal genotypes for growth and yield parameters</b> D. Anbarasi and K. Haripriya	1408-1412
48.	<b>Combining ability and gene action analysis of some bacterial wilt resistant intraspecific hybrids of bell pepper (<i>Capsicum annuum</i> var. <i>grossum</i>)</b> Harnoor Kaur Dhillon, Sonia Sood, V. K. Sood, R. K. Chahota and Sheetal Rana	1413-1421
49.	<b>Alloctoplasmic restorers and performance of hybrids in rice (<i>Oryza sativa</i> L.)</b> K. Rukmini Devi, K. Rajendra Prasad and P. Jaganmohan Rao	1422-1431

**Research Note**

50.	<b>Hybrid vigour and inbreeding depression analysis for seed yield and its related attributes in safflower (<i>Carthamus tinctorius</i> L.)</b> P. R. Sargar, P. B. Wadikar, S. H. Patil and S. M. Shrotri	1432-1435
51.	<b>Genetic relatedness and distribution pattern of yield attributing traits in horsegram mutants</b> V. Pushpayazhini, R. Sudhagar, C. Vanniarajan, R. Renuka and S. Juliet Hepziba	1436-1441
52.	<b>Inheritance of some morphological characters in chickpea (<i>Cicer arietinum</i> L.)</b> V. L. Rathod, V. N. Toprope, R. G. Tathe, A. R. Talape and S. S. Gavade	1442-1447
53.	<b>Genetic diversity analysis in American cotton (<i>Gossypium hirsutum</i> L.) genotypes</b> Y. Satish	1448-1453
54.	<b>Induced chlorophyll mutations in <i>Gloriosa superba</i></b> S. Padmapriya and K. Rajamani	1454-1460
55.	<b>Assessment of genetic variability, heritability and genetic advance in soybean genotypes</b> P. Dutta, P. K. Goswami and M. Borah	1461-1465