## EJPB Vol 12 (3) - 2021

## Contents

6. No.	Title	Page No
Resear	ch Article	
1.	CoG 6 - A high yielding and quality sugarcane variety	606-611
	N.A. Saravanan, R. Sudhagar, A. Thirumurugan and R. Kanchanarani	
2.	Combined selection for productivity and resilience through modified stress tolerance	612-622
	indices in a HUW-234 X HUW-468 derived wheat ( <i>Triticum aestivum</i> L.) RIL mapping	
	population for heat stress	
	Parvaze A. Sofi, Sadiah Shafi, Bikram Singh, J. P. Jaiswal, V. K. Mishra and R. R. Mir	
3.	Stability analysis and performance of promising sugarcane varieties for yield and	623-636
	quality traits	
	F.F.B. Abu-Ellail <sup>,</sup> A.B.A. El-Taib and Y. A.M. Hefny	
4.	Studies on inheritance of okra leaf shape and genetic parameters for morpho-yield	637-642
	related traits in two F <sub>2</sub> populations of cotton (Gossypium hirsutum L.)	
	S. Surya Krishna, M. Kumar, N. Premalatha, K. Senguttuvan and L. Mahalingam	
5.	Agro-morphological diversity in promising wheat genotypes grown under restricted	643-651
	irrigated condition	
	Tasphiya Elahi, Suneeta Pandey and R.S. Shukla	
6.	Morphological characterization of Indian Sarsaparilla [Hemidesmus indicus (L.)	652-658
	R. Br. ex Schult.] – A potential medicinal plant	
	P. Yazhni, R. Chandirakala, R. Gowthami, C. Vanniarajan, R. Renuka and J. Suresh	
7.	Genetic variability, frequency distribution and association analysis in ADT (R)	659-666
	48 x Kavuni derived F <sub>2</sub> population of rice ( <i>Oryza sativa</i> L.)	
	M. Almas Fathima, S. Geetha, K. Amudha and D. Uma	
8.	Combining ability analysis in Indian mustard [Brassica juncea (L.) Czern & Coss.]	667-672
	involving Ogura CMS system	
	Neeraj Kumar, Ram Avtar and Vivek Singh	
9.	Molecular screening of rice ( <i>Oryza sativa</i> L.) genotypes for submergence tolerance	673-677
	A.S. Aryalekshmi, Veena Vighneswaran and K.S. Shilpa	
10.	Genetic analysis in pre-breeding lines derived from inter sub-specific cross of	678-684
	blackgram ( <i>Vigna mungo</i> (L.) Hepper)	
	S. Manju Devi, M. Kumar, P. Jayamani, K. R. Latha and M. Muthamilan	
11.	Ascertaining gamma ray dosage sensitivity of in vitro cultures in banana	685-692
	cv. Ney Poovan ( <i>Musa</i> AB)	
	C.Y. Shalini Udaya, K. Soorianathasundaram, M. Ganga, P. Paramaguru and	
	U. Sivakumar	
12.	Spectrum and frequency of macro and micro mutations induced through gamma rays	693-706
	in traditional rice landraces of Chhattisgarh	
	Richa Sao, Parmeshwar K. Sahu, Suvendu Mondal, Vikash Kumar, Deepak Sharma and B.K.	
10	Das	707 744
13.	Morphological characterization and assessment of genetic diversity in pigeonpea	707-711
	[Cajanus cajan (L.) Millsp.] germplasm	
1 /	Lakshmi Chaudhary, Rajat Sharma, Mukesh Kumar and Sunil Kumar	710 717
14.	Genetic variability and heritability for quantitative traits in China aster ( <i>Callistephus</i>	712-717
	chinensis (L.) Nees.)	
	S.K. Nataraj, G.K. Seetharamu, Rajiv Kumar, V. Srinivasa, B.S. Kulkarni R. Venugopalan and K.B.Naik	
15.	Genetic studies of yield components and pungency in chilli (Capsicum annuum L.)	718-722
	genotypes through Hayman's approach	
	Zulfikar Damaralam Sahid, Muhamad Syukur and Awang Maharijaya	

16.	Study on physicochemical properties of rice landraces for amylose, gel consistency	723-731
	and gelatinization temperature	
	Theertha Prasad, S. Banumathy, D. Sassikumar, J. Ramalingam and M. Ilamaran	
17.	Selection of clones of Eucalyptus camaldulensis (Dehnh.) based on stability for tree	732-740
	volume	
	Smitha G Nair, Sivakumar Veerasamy, A. Vijayaraghavan, G. Suresh, A. Anees and	
	T. Yuvaraj	
18.	Morphological characterization of <i>Gossypium arboreum</i> germplasm using qualitative	741-747
	descriptors	
10	K. Thamizhi, L. Mahalingam, N. Premalatha, P. Latha and A. Manivannan	740 750
19.	Multivariate analysis of wild rice MAGIC population under sodic soil condition	748-756
	M. Aarthi, A. Subramanian, P. Jeyaprakash and V. Rajanbabu	757 705
20.	Combining ability analysis for yield and its contributing traits in rice ( <i>Oryza sativa</i> L.)	757-765
04	Akhilesh Kumar Yadav, R. P. Vyas, V. K. Yadav and Vimilesh Kumar	700 774
21.	Analysis of the performance, variability and nature of pearl millet productive traits in	766-771
	the rainfed environment of Andhra Pradesh	
22	R. Narasimhulu, B. Sahadeva Reddy, C. Tara Satyavathi and B.C. Ajay Allele mining for the grain number gene <i>An-1</i> in rice ( <i>Oryza sativa</i> L.)	772-779
22.	R. Shobica Priya, T. Kalaimagal, S. Rajeswari, R. Ajay Prasanth and M. Raveendran	112-119
23.	Enabling different genetic diversity algorithms to unravel conservation and	780-787
23.	divergence in moringa germplasm accessions	100-101
	Allen Eldho Paul, M. Williams, R. Ajay Prasanth, R. Veera Ranjani,	
	P. Meenakshisundaram, V. Rajasree, M. Raveendran and N. Manikanda Boopathi	
24.	Genetic variability and character association among grain yield and their component	788-793
Δ	traits in sorghum [Sorghum bicolor (L.) Moench]	100 100
	V. Santhiya, B. Selvi, D. Kavithamani and A. Senthil	
25.	Haplotype analysis of SCM2 loci for identification of donor for lodging resistance in	794-799
-	rice	
	K. Madhuri, S. Manonmani, T. Kalaimagal, R. Veera Ranjani and M. Raveendran	
26.	Assessment of genetic diversity among the maintainer and restorer inbreds of	800-803
	sunflower (Helianthus annuus L.)	
	T. Reavanth, N. Manivannan, R. Sasikala and L. Rajendran	
27.	Genetic analysis in ashwagandha [ <i>Withania somnifera</i> (L.) Dunal]	804-811
	Mithlesh Kumar, Manubhai Patel, Ravindrasingh Chauhan, Chandresh Tank, Satyanarayan	
	Solanki and Raman Gami	
28.	Cyto-systematical study of the genus Senna Mill. in diverse geographical locations of	812-820
	Uttar Pradesh	
	Girjesh Kumar, Kaushal Tripathi and Moni Mishra	
29.	Inheritance of resistance to Mungbean Yellow Mosaic Virus (MYMV) in mungbean	821-826
	[Vigna radiata L. Wilczek]	
	Yugandhar Gokid, M. N. Singh, Swathi Lekkala and L. Suryanarayana	
30.	An insight into the reproductive success in an interspecific cross of Sesamum	827-834
	S.R. Sruthi, R. Kalaiyarasi, R. Sasikala and M. Sudha	005 0 40
31.	Studies on genetic variability, correlation and path coefficient analysis in fenugreek	835-840
	(Trigonella foenum graecum L.) genotypes	
32.	B. Krishnaveni, P. Irene Vethamoni, B. Senthamizh Selvi and M. Raveendran Genetic variability and association analysis in the segregating population of extra	841-848
32.	early barnyard millet [ <i>Echinochloa frumentaceae</i> (Roxb.) Link] involved crosses	041-040
	S. Monika, C. Vanniarajan, R. Chandirakala and R. Renuka	
33.	Optimisation of plant tissue culture conditions in a popular semi-dwarf <i>indica</i> rice	849-854
33.	cultivar ADT 39 for effective Agrobacterium-mediated transformation	043-004
	Kausalya Sakthivel, K. K. Kumar, S. Varanavasiappan, L. Arul, D. Sudhakar, R. Saraswati	
	and E. Kokiladevi	
L		

34.	Principal component and diversity analysis for discrimination of genotypes and yield	855-860
	related traits in pearl millet [Pennisetum glaucum (L.) R.Br.]	
	N. Karunya, K. Iyanar, R. Ravikesavan and T. Chitdeshwari	
35.	Evaluation of mutants and association studies in non-lodging clusterbean	861-867
	(Cyamopsis tetragonoloba (L.) Taub.) mutant lines for yield and yield attributing traits	
	Devi Suresh, M. Ananthan, C. Vanniarajan, P. Balasubramanian, T. Sivakumar,	
	J. Souframanien and A. Beaulah	
36.	Exploiting combining ability and maternal effects for genotypic selection of best	868-877
	hybrids in sweet corn and normal corn crosses	
	K. Kavya, R. Ravikesavan, N. Kumari Vinodhana and A.P. Sivamurugan	
37.	Assessment of genetic diversity in annatto through progeny evaluation	878-884
	R. Saranya Kumari, K. Kumaran, P. S. Devanand and R. Ravi	
38.	Heterosis and <i>Per s</i> e performance studies in sesame (Sesamum indicum L.)	885-894
	S. T. Rathod, M. K. Ghodke, H. V. Kalpande and S. P. Mehetre	
39.	Strategy of multiple selection indices for discrimination of potential genotypes and	895-906
	associated traits for yield improvement in pearl millet [Pennisetum glaucum (L.) R.Br.]	
	Venkataramana S. Kalagare, N. Meenakshi ganesan, K. Iyanar, T. Chitdeshwari and	
	C. N. Chandrasekhar	
40.	Principal component analysis of yield and yield related traits in rice (Oryza sativa L.)	907-911
	landraces	
	G. Raiza Christina, T. Thirumurugan, P. Jeyaprakash and V. Rajanbabu	
41.	Genetic variability and association analysis in rice (Oryza sativa L.) germplasm based	912-917
	on biometrical and floral traits	
10	M. Aswin, R. Umarani, S. Rajeswari and P. Jeyaprakash	040.007
42.	Microscopic characterization and performance analysis of chilli ( <i>Capsicum annum</i> )	918-927
	cultivars	
40	Udit Joshi, D.K Rana, Pawan Singh Rana and Vivek Singh	000 000
43.	Genetic variability and correlation in maize inbred lines under irrigated and moisture stress condition	928-933
	P. Bharathi, R. Ravikesavan, A. Yuvaraja, N. Manikanda Boopathi and K. Iyanar	
44.	Heterosis and combining ability analysis for yield contributing traits and fibre quality	934-940
44.	traits in interspecific cotton hybrids (Gossypium hirsutum L. x Gossypium	934-940
	barbadense L.)	
	R. Richika, S. Rajeswari, N. Premalatha and K. Thirukumaran	
45.	Morphological characterization and pollen –pistil interaction in selected genotypes of	941-948
	sunnhemp ( <i>Crotalaria juncea</i> L.)	011 010
	Ananthu Rajagopal, N. Meenakshi ganesan, P. Anantharaju and R.Gnanam	
46.	Diversity analysis of moringa ( <i>Moringa oleifera</i> Lam.) genotypes using DUS	949-955
	descriptors	
	P. Meena, T. Saraswathi, N. Manikanda Boopathi and L. Pugalendhi	
47.	Identification of selection indices for the yield enhancement in cowpea	956-962
	( <i>Vigna unguiculata</i> (L.) Walp.) under sodic condition	
	J. Sumaiya Sulthana, S. Chitra, T. Thirumurugan, P. Jeyaprakash and S. Geethanjali	
48.	Trait relationship and path analysis under sodicity in Nagina 22 rice mutants	963-968
	R. Rajasekar, P. Jeyaprakash, K. Manonmani, S. Nithila and T. Thirumurugan	
49.	Stability analysis in castor ( <i>Ricinus communis</i> (L.)	969-975
	Rathod Kajal, D. A. Chauhan, R. S. Bhakta, Aditi Patel and Kanak Bhati	
50.	Assessment of combining ability, gene action and heterosis for yield and grain	976-982
	characters in rice ( <i>Oryza sativa</i> L.)	
	R. S. Nanditha, R. Pushpam, S. Geetha, K. Krishna Surendar and K. Ganesamurthy	
51.	Morphological and biochemical characteristics associated with powdery mildew	983-989
	resistance in M3 population of blackgram (Vigna mungo (L.) Hepper)	
	S. Kanimozhi, D. Kumaresan, V. Thiruvengadam and T.K.S. Latha	

52.	Studies on genetic diversity in selected rice (Oryza sativa L.) landraces of Tamil Nadu	990-997
	N. Dhanuja, K. Ganesamurthy, R. Pushpam, K. Amudha and D. Uma	
53.	Evaluation of wild rice MAGIC population for biophysical parameters and yellow stem	998-1010
	borer resistance	
	T.Rakesh, R. P. Soundararajan, S. Sheeba Joyce Roseleen, P.Jeyaprakash	
54.	Combining ability and heterosis studies in fodder pearl millet [Pennisetum glaucum	1011-1021
	(L.) R. Br.]	
	M. S. Aswini, K.N. Ganesan, T. Ezhilarasi and S.D. Sivakumar	
55.	Callus induction and regeneration in selected indica genotypes of rice	1022-1028
	(Oryza sativa L.)	
	P. Dhamotharan, R. Saraswathi, N. Meenakshi ganesan and R. Gnanam	
Resear	ch Note	
56.	Study on correlation and path analysis of F <sub>2</sub> population of cucumber	1029-1032
	(Cucumis sativus L.)	
	M. R. Bhoomika, Nagarajappa Adivappar, D. Thippesha, S. Gangaprasad and	
	Sharanabasappa	
57.	Principal component analysis of sorghum landraces for yield contributing traits	1033-1036
	K. Geetha and S. Divya	
58.	Manjari: A Cowpea Aphid Borne Mosaic Virus (CABMV) tolerant yard long bean	1037-1040
	(Vigna unguiculata ssp. sesquipedalis (L) Verdc) variety suited for problem zone of	
	Kerala	
	Anu G. Krishnan, Bini, K. Alice Antony and K. A. Inasi	
59.	Performance of maize (Zea mays L.) hybrids and association of morpho-physiological	1041-1047
	traits with grain yield under heat stress and optimal conditions	
	N. Pavani, P. H. Kuchanur, Ayyanagouda Patil, B. Arunkumar and P. H. Zaidi, M. T. Vinayan	
	and K. Seetharam	
60.	Diversity assessment among exotic and indigenous lines of Indian mustard for	1048-1053
	exploitation in breeding programme	
	Huynh Thi Phuong Lien, Ram Avtar, Nisha Kumari, Neeraj Kumar, Vivek K. Singh,	
	Manjeet Singh and Mahavir Bishnoi	