

Contents

S. No.	Title	Page No.
Research Article		
1.	Pollen–pistil interaction in self-pollinated and sib pollinated flowers of sunnhemp (<i>Crotalaria juncea</i> L.) P. Suriya, N. Meenakshi Ganesan A. Subramanian and R. Gnanam	286-294
2.	Development of tryptophan rich maize lines through simple sequence repeat marker aided introgression of <i>opaque2</i> trait Swaran Lata, Reena Kumari, Kalpna Thakur, Maneet Rana , Naresh Thakur and Waseem Hussain	295-304
3.	Molecular genetic diversity in dual purpose and land races of pigeonpea (<i>Cajanus cajan</i> (L.) Millsp.) S. E. Diwakar Reddy, S. Manju Devi and P. Jayamani	305-311
4.	Mutation induced phenotypic variation for yield traits in sorghum [<i>Sorghum bicolor</i> (L.) Moench] S. M. Surashe, H. V. Kalpande, Ashok Badignavar, Ambika More and T. R. Ganapathi	312-318
5.	Genetic variability, character association and path coefficient analysis in determinate F₅ progenies of Indian bean [<i>Lablab purpureus</i> (L.) Sweet] A. D. Kyada, B. H. Kale, Jwala Pranati, G. M. Patel, D. P. Patel, M. R. Prajapati, K. G. Modha and R. K. Patel	319-324
6.	Study of genetic architecture of grain yield and quality traits through generation mean analysis in rice (<i>Oryza sativa</i> L.) Ch. Sreelakshmi and P. Ramesh Babu	325-333
7.	Genetic variability, character association, path coefficient analysis in kenaf (<i>Hibiscus cannabinus</i> L.) D. V. Deshmukh and D. P. Pacharne	334-340
8.	Resolving the acute gamma irradiation and ethyl methanesulphonate induced lethality for <i>Jasminum sambac</i> L. (Aiton) cv. Ramanathapuram Gundumalli G. Gopitha, K. Rajamani, M. Ganga, R. Ravikesavan and R. Gnanam	341-349
9.	Biplot analysis of non parametric measures of stability for long term evaluation of fababean genotypes RajeshKumar Arya, Ajay Verma and Vandana	350-360
10.	Analysis of genetic parameters, trait association and genetic diversity in fodder cowpea [<i>Vigna unguiculata</i> (L.) Walp.] Sabbarigari Sai Vamshi, A. Subramanian, T. Ezhilarasi, K. Gurusamy and K. N. Ganesan	361-368

11.	Genetic studies on F₃ population of bread wheat [<i>Triticum aestivum</i> L.] for yield and its components traits Abbadi. Aruna Prabha, Harshal Avinashe, Nidhi Dubey, J. Pranay Reddy and B. Tarun Reddy	369-376
12.	Molecular genetic diversity analysis in short duration pigeonpea [<i>Cajanus cajan</i> (L.) Millsp.] D. Thenmozhi, P. Jayamani, R. P. Gnanamalar and L. Karthiba	377-381
13.	Genetic variability studies in Indigo (<i>Indigofera tinctoria</i> L.) D. Dhanasekaran and K. Sekar	382-387
14.	Optimization of protocol for callus induction and whole plant regeneration for developing somaclonal variants in sugarcane cv. COC 671 Srilakshmi Maruprolu, S. Geetha, R. Gnanam, R. Viswanathan, Asish K Binodh and R. Sudagar	388-398
15.	Estimating genetic diversity of bread wheat (<i>Triticum aestivum</i> L.) in different environments Aashu, Y.P.S. Solanki, Divya Phougat and Tanya Barpanda	399-409
16.	Combining ability and heterosis for yield and grain quality characters in rice (<i>Oryza sativa</i> L.) K. Manivelan, S. Juliet Hepziba, R. Suresh, M. Theradimani, R. Renuka and R. P. Gnanamalar	410-418
17.	Restoration ability of newly developed restorer gene pool inbreds on two different CMS sources in sunflower (<i>Helianthus annuus</i> L.) D. Mohan, H.P. Meena, G. Sandhya and S.K. Payasi	419-424
18.	Deciphering genetic diversity in ‘Antenna Panel’ genotypes of IRRI’s Global Rice Array-IV for yield traits in Indo-Gangetic Plains Deepayan Roy, Amit Kumar Gaur and Indra Deo Pandey	425-431
19.	Genetic studies on green fodder yield and quality traits in fodder maize (<i>Zea mays</i> L.) A. Pavithra, K. N. Ganesan, B. Meenakumari and S. D. Sivakumar	432-439
20.	Heterosis and combining ability in diverse A and R lines of pearl millet tested in Western Rajasthan Mukesh Kumar Yadav, PC Gupta, Sanjay Kumar Sanadya and Devendra chandel	440-446
21.	Multivariate analysis and role of direct–indirect effect for yield and its component traits in bread wheat (<i>Triticum aestivum</i> L.) Vikrant Khare	447-454
22.	Characterization of soybean [<i>Glycine max</i>(L.) Merrill] genotypes using DUS descriptors R. C. Sivabharathi, A. Muthuswamy, K. Anandhi and L. Karthiba	455-464

23.	Genetic variability, character association and path analysis in fenugreek (<i>Trigonella foenum-graecum</i> L.) under normal and staggered irrigation regimes M. Choudhary, D. K. Gothwal, M. L. Jakhar, D. Singh, K. R. Kumawat and R. Kumawat	465-475
24.	Assessment of genetic variability, character association and path analysis of kernel yield and yield components in groundnut (<i>Arachis hypogaea</i> L.) S. Sridevi, B. Meenakumari, N. Manivannan and V. Ravichandran	476-481
25.	Genetic studies for isolation of superior parents and hybrids for further breeding programme in safflower (<i>Carthamus tinctorious</i> L.) Arzoo Garg and Vijaykumar L. Gawande	482-487
26.	Assessment of variability in sorghum [<i>Sorghum bicolor</i> (L.) Moench] germplasm for agro-morphological traits Elangovan Maruthamuthu, Karnam Venkatesh, Amasiddha Bellundagi, Sushil Pandey and Chitra Devi Pandey	488-497
27.	Estimation of genetic parameters and character association for yield and quality traits in BC₁F₂ population of rice (<i>Oryza sativa</i> L.) R. Prathiksha, R. Pushpam, K. Amudha and M. Raveendran	498-505
28.	Genetic variability for different quantitative characters in sweet potato (<i>Ipomoea batatas</i> L.) Bajrang Bali, Padmakshi Thakur, Neeraj Shukla, Deo Shankar and Sonali Kar	506-511
29.	Genetic variability and diversity analyses in Electron Beam and Gamma Ray induced mutants for yield attributing traits in urdbean [<i>Vigna mungo</i> (L.)] C. Vanniarajan and R. Chandirakala	512-518
30.	Studies on growth analysis and framing selection criteria for high yield and quality traits in turmeric (<i>Curcuma longa</i> L.) V. Vinodhini, B. Senthamizh Selvi, S. Balakrishnan and R. Suresh	519-525
31.	Character association and identification of trait specific introgression in restorer lines of sunflower (<i>Helianthus annuus</i> L.) Girish, Vikas V. Kulkarni, B. V. Tembhurne, J. R. Diwan and Sreedevi S. Chavan	526-531
32.	Characterization of pigeonpea germplasm using DUS descriptors M. Dhanushasree, A. Thanga Hemavathy, R. P. Gnanamalar and L. Karthiba	532-543
33.	Genetic variability studies for seed yield and yield component traits in cowpea [<i>Vigna unguiculata</i> (L.) Walp.] K. Vinay, P. Jagan Mohan Rao, N. Sandhya Kishore and Y. Hari	544-548
34.	Identification of promising parental lines and hybrids in sweet corn (<i>Zea mays</i> L. <i>saccharata</i>) Sonal Chavan, D. Bhadr, V. Swarnalatha and B. Mallaiiah	549-557

35.	Genetic diversity and QTL-marker association analysis of rice germplasm for grain number per panicle and its contributing traits M. Arunkumar, S. Geetha, K. Amudha, R. Suresh, V. Ravichandran and K. Geetha	558-566
36.	Pomological and phenological characterization, genetic variability and genetic diversity of walnut (<i>Juglans regia</i> L.) genotypes in the Kodaikanal hills of Western ghats J. Rajangam, B. Senthamizh Selvi, R. Muthuselvi and R. Suresh	567-573
37.	Seed morphological characterization, genetic diversity and association analysis in late flowering monoecious lines of castor (<i>Ricinus communis</i> L.) C. Deepika, S.R. Venkatachalam, A. Yuvaraja, P. Arutchenthil, N. Indra, V. Ravichandran, P. Veeramani and P. Kathirvelan	574-583
38.	Selection indices for oil content and oil yield improvement in low and high oleic acid content populations in sunflower (<i>Helianthus annuus</i> L.) T. Kamalnathu, N. Manivannan, R. Sasikala and S. Marimuthu	584-589
39.	Studies on genetic parameters in okra [<i>Abelmoschus esculentus</i> (L.) Moench] Mritunjay Rai, R. K. Singh, Vijay Sharma and A. C. Mishra	590-596
40.	Genetic variability and association of yield contributing traits in advanced breeding lines of soybean Jhilick Banerjee, M. K. Shrivastava, Pawan K. Amrate, Yogendra Singh, Anubha Upadhyay and Monika Soni	597-607
41.	Study of association between morphological traits and QTLs governing sheath blight resistance in rice (<i>Oryza sativa</i> L.) Mahantesh, K. Ganesamurthy, Sayan Das, R. Saraswathi, C. Gopalakrishnan and R. Gnanam	608-615
42.	Genetic divergence, variability and character association analysis in chickpea (<i>Cicer arietinum</i> L.) genotypes under normal and late sown conditions Ravi Singh Thapa, Tejbir Singh, Anuj Kumar, Hitesh Kumar and Dharmendra Pratap	616-623
43.	Genetic investigations in F₃ generations involving okra cotton leaf genotypes as parents N. Bowthiya, M. Kumar, N. Premalatha and K.Thirukumaran	624-632
44.	Revealing genetic diversity in finger millet [<i>Eleusine Coracana</i> (L.) Gaertn] germplasm collected from Uttarakhand hills Wanna Soe, A. S. Jeena, Usha Pant, Anil Kumar, Rohit and Divya Chaudhary	633-644
45.	Combining ability and heterosis for yield contributing and fibre quality traits in the hybrids of <i>Gossypium hirsutum</i> L. S. Subhashini, S. Rajeswari, N. Premalatha, T. Kalaimagal, M. Muthuswami and P. Jeyakumar	645-654
46.	Studies on genetic diversity, correlation and path analysis in rice germplasm David Jesse Jangala, K. Amudha, S. Geetha and D. Uma	655-662

47.	Elucidating combining ability, gene action and heterosis for yield and yield contributing traits in finger millet (<i>Eleusine coracana</i> L. Gaertn) S. Divya, K. Geetha, R. Siva kumar, A. Nirmala Kumari and P. T. Sharavanan	663-669
48.	Studies on variability, correlation and path coefficient analysis for yield and quality traits in rice (<i>Oryza sativa</i> L.) genotypes P. Sadhana, Ch. Damodar Raju, L.V. Subba Rao and Aparna Kuna	670-678
49.	Morphological characterization of early duration pigeonpea genotypes M. Padma Priya, R. P. Gnanamalar, L. Karthiba and A. Thanga Hemavathy	679-689
50.	Deciphering combining ability for yield and its components under saline environment in rice (<i>Oryza sativa</i> L.) P. Hima Bindu, G. Shiva Prasad, Raman Meenakshi Sundaram, Ch. Damodar Raju, P. Raghuvveer Rao and K. Sumalini	690-696
51.	Combining ability and heterosis studies in cotton (<i>Gossypium hirsutum</i> L.) for yield and fibre quality traits K. Keerthivarman, L. Mahalingam, N. Premalatha, N. Manikanda Boopathi, K. Senguttuvan, A. Manivannan	697-704
52.	Identification of stable genotypes based on grain yield response over different environments in sorghum (<i>Sorghum bicolor</i> L. Moench) Veldandi Saikiran, D. Shivani, S. Maheswaramma, S. Ramesh, K. Sujatha, K. Sravanthi, K. N. Yamini, B. V. Varaprasad and C. V. Sameer Kumar	705-711
53.	Genetic studies to determine the selection criteria for advancing BC₁F₃ families of Azucena /CB 87R IN rice for restorer development A. G. Elayaraj, R. Saraswathi, B. Meena Kumari and G. Senthil Kumar	712-716
54.	Exploiting the natural variation and inter-relationship among medium maturity pigeonpea [<i>Cajanus cajan</i>(L.) Millsp.] genotypes Shanu Shukla, Sudhakar Prasad Mishra and Suhel Mehandi	717-723
55.	Cytological investigation on pre and post fertilization barriers in interspecific cross of pigeonpea P. Ravali, R. Kalaiyarasi, A. Thanga Hemavathy and M. Sudha	724-730
Research Note		
56.	Association studies in linseed (<i>Linum usitatissimum</i> L.) under different production systems over locations Garima Thakur and Satish Paul	731-738
57.	NDLH 2035-5: A high yielding cotton variety with high fibre quality and sucking pest tolerance suitable for both Central and South zones of India K. Mohan Vishnuvardhan, B. V. Ravi Prakash Reddy, D. Lakshmi Kalyani, M. Sivarama Krishna and Y. Rama Reddy	739-744

58.	Genetic variability studies in carrot (<i>Daucus carota</i> L.) under low hill regions of Himachal Pradesh D. Rana, B. S. Dogra, S. P. Singh, S. Kumari and P. Thakur	745-749
59.	Genetic variability in Mysuru jasmine (<i>Mysuru mallige</i>) : A GI crop of Mysuru S. C. Venkatesha, K. N. Rahul, B. Fakrudin, Mukesh L Chavan, H. M. Pallavi and Vikram Appanna	750-753
60.	CoPb 14185: A midlate sugarcane variety for North West Zone of India Vikrant Singh, Kuldeep Singh, R. S. Singh, Rajinder Pal, Anuradha and Rajinder Kumar	754-763