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Area of Specialization: Molecular Breeding

1. Devasree, KN Ganesan, R Ravikesavan, N Senthil, V Paranidharan. 2020. Relationship between yield and its component traits for enhancing grain yield in single cross hybrids of maize (*Zea mays* L.). *Electronic Journal of Plant Breeding* 11 (03), 796-802
2. Bharathi Pukalenty, Dhasarathan Manickam, Karthikeyan Adhimoolam, Sandesh Goragundi Mahesh, Nagalakshmi Ramanathan, Sarankumar Chandran, Vellaikumar Sampathrajan, Ravikesavan Rajasekaran, Kavithapushpam Arunachalam, Kalaiselvi Senthil, Vignesh Muthusamy, Firoz Hossain, Senthil Natesan .2020. Marker aided introgression of opaque 2 (o2) allele improving lysine and tryptophan in maize (*Zea mays* L.). *Physiology and Molecular Biology of Plants* 26 (9), 1925-1930
3. Lalitha, A Mothilal, P Arunachalam, C Vanniarajan, N Senthil, J Souframanien, G Hemalatha.2020. Effectiveness and Efficiency of Gamma Rays and Electron Beam in M2 Generation of Anna (R) 4 Rice Mutants.. *Indian Journal of Agricultural Research* 54 (4)
4. Neelima, C Sarankumar, M Sudha, KN Ganesan, R Ravikesavan, N Senthil.2020. Estimation of variability, heritability, genetic advance and assessment of frequency distribution for morphological traits in intercross population of maize. *Electronic Journal of Plant Breeding* 11 (02), 574-580
5. Santhiya, K Kowshiga, D Abisha, C Sarankumar, D Kavithamani, B Selvi, N Senthil.2020. SSR Marker-based DNA fingerprinting and morphological characterization for varietal identification in popular sorghum varieties of Tamil Nadu. *Electronic Journal of Plant Breeding* 11 (02), 521-527
6. Aswin, M Sudha, A Senthil, S Sivakumar, N Senthil.2020. Identification of superior drought tolerant maize hybrids based on combining ability and heterosis with Line× Tester mating design. *Electronic Journal of Plant Breeding* 11 (02), 566-573
7. Natesan, S TS Singh, T Duraisamy, N Chandrasekharan, S Chandran, K Adhimoolam, SJ Muniyandi, V Sampathrajan, G Kalipatty Nalliappan, R Muthurajan, LJ Meitei.

2020.Characterization of crtRB1 Gene Polymorphism and β -Carotene Content in Maize Landraces Originated From North Eastern Himalayan Region (NEHR) of India.

8. Sumathi, K KN Ganesan, P Aarthi, V Sruthymenon, S Devasree, A Karthikeyan, V Paranidharan, N Senthil.2020. Introgression of QTLs determining sorghum downy mildew (SDM) resistance into elite maize line UMI 79 through marker-assisted backcross breeding (MABC). *Australasian Plant Pathology* 49 (2), 159-165
9. Santhi Madhavan Samyuktha, Devarajan Malarvizhi, Karthikeyan Adhimoolam, Dhasarathan Manickam, Arumugam Thanga Hemavathy, Chocklingam Vanniarajan, Sheela Venugopal, Sundarrajan Juliet Hepziba, Muthaiyan Pandiyan, Senthil Natesan.2020. Delineation of genotype \times environment interaction for identification of stable genotypes to grain yield in mungbean. *Frontiers in Agronomy* 2, 17
10. Natesan, S, G Venugopalan, SB Selvamani, N Angamuthu.2020. Characterization of little millet (*Panicum sumatrense*) varieties using morphological descriptors and SSR based DNA fingerprinting. *Journal of Phytology* 12, 29-34
11. Senthil Natesan, Thirusenduraselvi Duraisamy, Bharathi Pukalenty, Sarankumar Chandran, Jagadeeshselvam Nallathambi, Karthikeyan Adhimoolam, Dhasarathan Manickam, Vellaikumar Sampathrajan, Samuel Jeberson Muniyandi, Laishram Joykumar Meitei, Nepolean Thirunavukkarasu, Ganesan Kalipatty Nalliappan, Ravikesavan Rajasekaran.2020. Enhancing β -carotene concentration in parental lines of CO6 maize hybrid through marker-assisted backcross breeding (MABB). *Frontiers in Nutrition* 7
12. Vijayakumar, E, K Thangaraj, T Kalaimagal, C Vanniarajan, N Senthil, P Jeyakumar, J Souframanien. Inter Relationship between Yield and its Attributing Traits in Cowpea (*Vigna unguiculata* (L.) Germplasm Accessions. *Int. J. Curr. Microbiol. App. Sci* 9 (5), 194-200
13. Karthikeyan, A, N Senthil, T Min.2020. Nanocurcumin: A Promising Candidate for Therapeutic Applications. *Frontiers in Pharmacology* 11
14. Senthil Natesan, Thangjam Surchandra Singh, Thirusenthuraselvi Duraisamy, Neelima Chandrasekharan, Sarankumar Chandran, Karthikeyan Adhimoolam, Samuel Jeberson Muniyandi, Vellaikumar Sampathrajan, Ganesan KN, Raveendran Muthurajan, Laishram Joykumar Meitei.2020. Characterization of crtRB1 Gene Polymorphism and β -carotene content in Maize Landraces Originated from North Eastern Himalayan Region (NEHR) of India. *Frontiers in Sustainable Food Systems* 4, 78
15. Adhimoolam, K S Natesan, T Min.2020. Nanocurcumin: A Promising Candidate for Therapeutic Applications. *Frontiers in Pharmacology* 11, 487
16. Nivethitha, T, R Ravikesavan, N KumariVinodhana, N Senthil.2020. Deciphering drought tolerance potential of sweet corn genotypes through polyethylene glycol induced drought stress. *Electronic Journal of Plant Breeding* 11 (1), 217-223
17. Boreddy, SR, KN Ganesan, R Ravikesavan, N Senthil, R Babu.2020. Genotype-by-environment interaction and yield stability of maize (*Zea Mays* L.) single cross hybrids. *Electronic Journal of Plant Breeding* 11 (1), 184-191

18. Vijayakumar, E K Thangaraj, T Kalaimagal, C Vanniarajan, N Senthil, P Jeyakumar.2020. Multivariate analysis of 102 Indian cowpea (*Vigna unguiculata* (L.) Walp.) germplasm. *Electronic Journal of Plant Breeding* 11 (1), 176-183
19. Takahashi, Yu Hiroaki Sakai, Yuki Yoshitsu, Chiaki Muto, Toyoaki Anai, Muthaiyan Pandiyan, Natesan Senthil, Norihiko Tomooka, Ken Naito.2019. Domesticating *Vigna stipulacea*: a potential legume crop with broad resistance to biotic stresses. *Frontiers in Plant Science* 10, 1607
20. Jadhav, KP, N Senthil, PM Tamilarasi, KN Ganesan, V Paranidharan, M Raveendran, J Ramalingam.2019. QTL mapping for sorghum downy mildew disease resistance in maize (*Zea mays* L.) in recombinant inbred line population of UMI79 X UMI936 (w). *Current Plant Biology* 20, 100124
21. Shunmugavel Uma Maheshwari, Sundarajan Amutha, Rangasamy Anandham, Ganapathyswamy Hemalatha, Natesan Senthil, Soon Woo Kwon, Natesan Sivakumar.2019. Characterization of potential probiotic bacteria from 'panchamirtham'; A Southern Indian ethnic fermented fruit mix. *LWT* 116, 108540
22. Mayalagu Kanimoli Mathivathana, Jayakodi Murukarthick, Adhimoolam Karthikeyan, Woojong Jang, Manickam Dhasarathan, Nallathambi Jagadeeshselvam, Manickam Sudha, Chocklingam Vanniarajan, Gandhi Karthikeyan, Tae-Jin Yang, Muthurajan Raveendran, Muthaiyan Pandiyan, Natesan Senthil.2019. Detection of QTLs associated with mungbean yellow mosaic virus (MYMV) resistance using the interspecific cross of *Vigna radiata* × *Vigna umbellata*. *Journal of Applied Genetics* 60 (3-4), 255-268
23. Irulappan Mariyammal, Devina Seram, Santhi Madhavan Samyuktha, Adhimoolam Karthikeyan, Manickam Dhasarathan, Jayakodi Murukarthick, John Samuel Kennedy, Devarajan Malarvizhi, Tae-Jin Yang, Muthaiyan Pandiyan, Natesan Senthil.2019. QTL mapping in *Vigna radiata* × *Vigna umbellata* population uncovers major genomic regions associated with bruchid resistance. *Molecular Breeding* 39 (7), 110
24. Murukarthick Jayakodi, Manimekalai Madheswaran, Karthikeyan Adhimoolam, Sampath Perumal, Dhasarathan Manickam, Thangaraj Kandasamy, Tae-Jin Yang, Senthil Natesan.2019. Transcriptomes of Indian barnyard millet and barnyardgrass reveal putative genes involved in drought adaptation and micronutrient accumulation. *Acta Physiologiae Plantarum* 41 (5), 66
25. Sivakumar, S M Dhasarathan, A Karthikeyan, P Bharathi, K Ganesamurthy, N Senthil.2019. Population structure and association mapping studies for yield-related traits in Maize (*Zea mays* L.). *Current Plant Biology* 18, 100103
26. Shunmugavel Uma Maheshwari, Sundarajan Amutha, Rangasamy Anandham, Ganapathyswamy Hemalatha, Natesan Senthil.2019. In vitro Evaluation of Antimicrobial Activity of Lactic Acid Bacteria Isolated From Fermented Fruit Mix-Indian Traditional Fermented Foods, Against Selected Food Borne Pathogens. *Int. J. Curr. Microbiol. App. Sci* 8 (1), 3122-3126

27. Devina, S, JS Kennedy, N Senthil, M Pandiyan.2019. Bruchid fitness on multigenerational rearing vis-a-vis their environment.
28. Raghu Duraisamy, Senthil Natesan, Raveendran Muthurajan, Karthikayan Gandhi, Pugalendhi Lakshmanan, Janavi Gnanaguru Janaky, Nageswari Karuppusamy, Mohan Chokkappan.2019. Proteomic Analysis of Cassava Mosaic Virus (CMV) Responsive Proteins in Cassava Leaf. *Int. J. Curr. Microbiol. App. Sci* 8 (4), 2988-3005
29. Lalitha, R, P Arunachalam, A Mothilal, N Senthil, G Hemalatha, C Vanniarajan, J Souframanien.2019. Radiation effect on germination and seedling traits in rice (*Oryza sativa* L.). *Electronic Journal of Plant Breeding* 10 (3), 1038-1048
30. Priyanka, AR RP Gnanamalar, S Banumathy, N Senthil, G Hemalatha.2019. Genetic variability and frequency distribution studies in F2 segregating generation of rice. *Electronic Journal of Plant Breeding* 10 (3), 988-994
31. Priyanka, AR RP Gnanamalar, S Banumathy, N Senthil, G Hemalatha.2019. Genetics of awnness in the F2 population of basmati crosses of rice. *Electronic Journal of Plant Breeding* 10 (3), 1171-1175
32. Lalitha, R, A Mothilal, P Arunachalam, N Senthil, G Hemalatha.2019. Genetic variability, correlation and path analysis of grain yield, grain quality and its associated traits in EMS derived M4 generation mutants of rice (*Oryza sativa* L.). *Electronic Journal of Plant Breeding* 10 (3), 1140-1147
33. Sarankumar Chandran, Bharathi Pukalenty, Karthikeyan Adhimoolam, Dhasarathan Manickam, Vellaikumar Sampathrajan, Vanniarajan Chocklingam, Kokiladevi Eswaran, Kavithapushpam Arunachalam, Ravikesavan Rajasekaran, Vignesh Muthusamy, Firoz Hossain, Senthil Natesan.2019. Marker-assisted selection to pyramid the opaque-2 (o2) and β -carotene (crtRB1) genes in maize. *Frontiers in Genetics* 10, 859
34. Rasitha, R , K Iyanar, R Ravikesavan, N Senthil.2019. Studies on genetic parameters, correlation and path analysis for yield attributes in the maintainer and restorer lines of pearl millet [*Pennisetum glaucum*.(L.) R. Br]. *Electronic Journal of Plant Breeding* 10 (2), 382-388
35. Prasath, Irene Vethamoni, P Balasubramanian, C Vanniarajan, J Souframanien, N Senthil, G Hemalatha.2019. Effect of mutagenesis on germination, plant survival, pollen sterility and seed sterility in m1 generation of cluster bean (*Cyamopsis tetragonaloba* L.) variety MDU. *Journal of Pharmacognosy and Phytochemistry* 8 (3), 3502-3507
36. Sarankumar, M Dhasarathan, D Kavithamani, C Vanniarajan, E Kokiladevi, R Ravikesavan, N Senthil.2019. Assessment of genetic variability, heritability and genetic advance in backcross population of BC1F1, BC2F1 and BC2F2 in maize. *Electronic Journal of Plant Breeding* 10 (2), 576-584
37. Chinthiya, KN Ganesan, R Ravikesavan, N Senthil.2019. Combining ability and association studies on different yield contributing traits for enhanced green cob yield in sweet corn (*Zea mays* con var *saccharata*). *Electronic Journal of Plant Breeding* 10 (2), 500-511

38. Arthi, B Rajagopal, S Geethanjali, A Nirmalakumari, N Senthil.2019. Screening of barnyard millet (*Echinochloa frumentacea*) germplasm for salinity tolerance. *Electronic Journal of Plant Breeding* 10 (2), 659-666
39. Sarankumar, A Karthikeyan, C Vanniarajan, E Kokiladevi, R Ravikesavan, N Senthil.2019. Frequency distribution of yield related traits in BC1F1, BC2F1 and BC2F2 backcross population of maize. *Electronic Journal of Plant Breeding* 10 (2), 592-600
40. Mariyammal, M Pandiyan, C Vanniarajan, JS Kennedy, N Senthil.2019. Genetic variability in segregating generations of greengram (*Vigna radiata* L. Wilczek) for quantitative traits.. *Electronic Journal of Plant Breeding* 10 (1), 293-296
41. Saravanakumari, S Thiruvudainambi, EG Ebenezar, N Senthil.2019. Efficacy of some fungicides and oil cake extracts against basal rot of onion caused by *Fusarium oxysporum*. *International Journal of Farm Sciences* 9 (1), 93-96
42. Bharathi Pukalenty, Dhasarathan Manickam, Sarankumar Chandran, Karthikeyan Adhimoolam, Vellaikumar Sampathrajan, Ravikesavan Rajasekaran, Kavithapushpam Arunachalam, Hemalatha Ganapathyswamy, Vanniarajan Chocklingam, Vignesh Muthusamy, Firoz Hossain, Senthil Natesan.2019. Incorporation of opaque-2 into 'UMI 1200', an elite maize inbred line, through marker-assisted backcross breeding. *Biotechnology & Biotechnological Equipment* 33 (1), 144-153
43. Bharathi Pukalenty, Dhasarathan Manickam, Karthikeyan Adhimoolam, Kavithapushpam Arunachalam, Hemalatha Ganapathyswamy, Vanniarajan Chocklingam, Senthil Natesan.2018. Studies on Frequency Distribution of Backcross Populations in Maize (*Zea mays* L.). *Research Journal of Agricultural Sciences* 9 (6), 1340-1344
44. Manimekalai, M Dhasarathan, A Karthikeyan, J Murukarthick, VG Renganathan, K Thangaraj, S Vellaikumar, C Vanniarajan, N Senthil.2018. Genetic diversity in the barnyard millet (*Echinochloa frumentacea*) germplasms revealed by morphological traits and simple sequence repeat markers. *Current Plant Biology* 14, 71-78
45. Venkatesan, K Sujatha, R Geetha, N Senthil.2018. Seed development and maturation studies in barnyard millet cv. MDU. *International Journal of Agricultural Sciences* 14 (2), 362-366
46. Takahashi, Yu, Chiaki Muto, Kohtaro Iseki, Ken Naito, Prakrit Somta, Muthaiyan Pandiyan, Natesan Senthil, Norihiko Tomooka.2018. A new taxonomic treatment for some wild relatives of mungbean (*Vigna radiata* (L.) Wilcz.) based on their molecular phylogenetic relationships and morphological. *Genetic resources and crop evolution* 65 (4), 1109-1121
47. Thiagarajan, S , M Arumugam, N Senthil, S Vellaikumar, S Kathiresan.2018. Functional characterization and substrate specificity analysis of $\Delta 6$ -desaturase from marine microalga *Isochrysis* sp.. *Biotechnology letters* 40 (3), 577-584
48. Hemalatha, D , J Jayaraj, M Murugan, TN Balamohan, N Senthil, C Chinniah, K Suresh.2018. Floral Diversity for Foraging of the Asiatic Honey Bee, *Apis cerana indica* (Hymenoptera: Apidae) in Madurai District of Tamil Nadu, India. *Int. J. Curr. Microbiol. App. Sci* 7 (10), 3452-3456

49. Suganyadevi, M, SK Manoranjitham, N Senthil, M Raveendran, G Karthikeyan.2018. Prevalence of Bud Blight of Tomato Caused by Groundnut bud necrosis virus in Tamil Nadu. International Journal of Current Microbiology and Applied Sciences 7 (11)
50. Sumathi, K , KN Ganesan, N Senthil.2018. Studies on Variability Parameters of Sorghum Downy Mildew Resistant BC3F1 Back Cross Progenies in Maize. Int. J. Curr. Microbiol. App. Sci 7 (6), 3643-3651
51. Kanimoli Mathivathana, M, SM Samyuktha, R Deepa Priya, I Mariyammal, P Bharathi, N Jagadeeshselvam, A Karthikeyan, M Sudha, M Pandiyan, G Karthikeyan, C Vanniarajan, M Raveendran, N Senthil.2018. Association and Path Analysis of Yield and Yield Components in the RIL Population of *Vigna radiata* × *Vigna umbellata*. Int. J. Curr. Microbiol. App. Sci 7 (4), 1231-1235
52. Kanimoli Mathivathana, M, N Jagadeeshselvam, B Madhumitha, A Karthikeyan, M Pandiyan, G Karthikeyan, C Vanniarajan, M Raveendran, N Senthil, M Sudha.2018. Screening and Identification of SSR Markers for Genetic Diversity for mungbean (*Vigna radiata* (L.) Wilczek). Journal homepage: <http://www.ijcmas.com> 7 (04), 2018
53. Uma Maheshwari, S , S Amutha, G Hemalatha, N Senthil, R Anandham, K Kumutha.2018. Characterization of Probiotic Bacteria from Fermented Fruit Mix. Int. J. Curr. Microbiol. App. Sci 7 (2), 2236-2242
54. Jeevanandham, N M Marimuthu, S Natesan, S Mukkaiyah, S Appachi.2018. Levels of Plant Resistance in Chillies *Capsicum* spp against Whitefly, *Bemisia tabaci*. Int. J. Curr. Microbiol. App. Sci 7 (1), 1419-1441
55. Bharathi, P, D Manickam, K Adhimoolam, V Chocklingam, S Natesan.2018. Estimates of genetic variability among the backcross populations involving UMI1200 and UMI1230 maize inbreds. Electronic Journal of Plant Breeding 9 (4), 1577-1582
56. Hemalatha, D , J Jayaraj, M Murugan, TN Balamohan, N Senthil, C Chinniah, K Suresh.2018. Foraging behaviour of asiatic honey bee *Apis cerana indica* (F.) during summer in Madurai, Tamil Nadu. Indian Journal of Entomology 80 (4), 1389-1394
57. Bharath, MS, MM Mohan, C Vanniarajan, V Gridhari, N Senthil.2018. Genetic variability studies in ADT 43/Seeraga samba cross derivatives of rice (*Oryza sativa* L.). Electronic Journal of Plant Breeding 9 (4), 1450-1460
58. Jadhav, KP, R Veera Ranjani, N Senthil, N Arulkumar, PM Tamilarasi, K Sumathi, KN Ganesan, V Paranidharan, M Raveendran, Gon Sup Kim, J Ramalingam.2018. Proteomic Analysis of a Compatible Interaction between Sorghum Downy Mildew Pathogen (*Peronosclerospora sorghi*) and Maize (*Zea mays* L.). Int. J. Curr. Microbiol. App. Sci 7 (11), 653-670
59. Nagalakshmi, RM, R Ravikesavan, V Paranidharan, N Manivannan, H Firoz, M Vignesh, N Senthil.2018. Genetic variability, heritability and genetic advance studies in backcross populations of maize (*Zea mays* L.). Electronic Journal of Plant Breeding 9 (3), 1137-1145

60. Sandesh, GM, A Karthikeyan, D Kavithamani, K Thangaraj, KN Ganesan, R Ravikesavan, N Senthil.2018. Heterosis and combining ability studies for yield and its component traits in Maize (*Zea mays* L.). *Electronic Journal of Plant Breeding* 9 (3), 1012-1023
61. Venkatesan, S , K Sujatha, R Geetha, N Senthil.2018. Standardization of duration for accelerated ageing in barnyard millet cv. CO2 and MDU 1. *Electronic Journal of Plant Breeding* 9 (3), 1234-1238
62. Priya, RD , K Thangaraj, RP Gnanamalar, N Senthil.2018. Combining ability studies for grain yield and its component traits in cowpea (*Vigna unguiculata* (L.) Walp). *Electronic Journal of Plant Breeding* 9 (3), 941-947
63. Jeevanandham, N, M Marimuthu, S Natesan, K Gandhi, S Appachi.2018. Plant resistance in chillies *Capsicum* spp. against whitefly, *Bemisia tabaci* under field and greenhouse condition. *J. Entomol. Zool. Stud* 6, 1904-1914
64. Sumathi, K, KN Ganesan, N Senthil.2018. Studies on Marker Assisted Background Screening of Sorghum Downy Mildew Resistant Introgressed Lines (BC3F3) in Maize. *Int. J. Curr. Microbiol. App. Sci* 7 (6), 3629-3642
65. Sumathi, K, KN Ganesan, N Senthil.2018. Studies on Screening of BC3F1 Population Against Sorghum Down Mildew in Maize (*Peronosclerospora sorghi*). *Int. J. Curr. Microbiol. App. Sci* 7 (6), 3839-3846
66. Sumathi, K, KN Ganesan, N Senthil.2018. Studies on Frequency Distribution of Sorghum Downy Mildew Resistant BC2F1 Progenies in Maize. *Int. J. Curr. Microbiol. App. Sci* 7 (6), 3621-3628
67. Sumathi, K, KN Ganesan, N Senthil.2018. Variability Parameters Studies in Sorghum Downy Mildew Resistant BC3F3 Progenies of Maize. *Int. J. Curr. Microbiol. App. Sci* 7 (6), 3847-3854
68. Sumathi, K, KN Ganesan, N Senthil.2018. Studies on Skewness and Kurtosis of Sorghum Downy Mildew Resistant BC3F3 Progenies in Maize. *Int. J. Curr. Microbiol. App. Sci* 7 (6), 3834-3838
69. Hemalatha, D, J Jayaraj, M Murugan, TN Balamohan, N Senthil, C Chinniah, K Suresh.2018. Foraging performance of Indian honey bee *Apis cerana indica* (F.), during winter in Madurai district of Tamil Nadu, India. *Journal of Entomology and Zoology Studies* 6 (3), 224-227
70. Arun Debbarma, J Jayaraj, P Chandramani, N Senthil, K Prabakaran, M Ananthan.2018. Studies on assessment of dominant natural enemies of diamondback moth on cauliflower in Dindigul and Theni Districts of Tamil Nadu, India.
71. Sumathi, K, KN Ganesan, N Senthil.2018. Estimation of mean performance in sorghum downy mildew resistant back cross progenies (BC3F3) of maize. *Int. J. Curr. Microbiol. App. Sci* 7 (6), 3855-3862
72. Rishi Mugesh Kanna, Rajasekaran Shanmuganathan, Veera Ranjani Rajagopalan, Senthil Natesan, Raveendran Muthurajan, Kenneth Man Chee Cheung, Danny Chan, Patrick Yu Ping Kao, Anita Yee, Ajoy Prasad Shetty.2017. Prevalence, patterns, and genetic association analysis of modic vertebral endplate changes. *Asian spine journal* 11 (4), 594

73. Sumathi, K, Kn Ganesan, N Senthil.2017. Studies on screening of BC.
74. Sai, CB, P Nagarajan, M Raveendran, R Rabindran, N Senthil.2017. Understanding the inheritance of mungbean yellow mosaic virus (MYMV) resistance in mungbean (*Vigna radiata* L. Wilczek). *Molecular breeding* 37 (5), 1-15
75. Bhaskaran, M, H Rahman, N Senthil, A Karthikeyan.2017. Identifying key genes involved in accumulation of ABA during drought in rice. *Int. J. Curr. Microbiol. App. Sci.* 6 (11), 5482-5487
76. Bhaskaran, M, M Kokila, N Jagadeeshselvam, H Rahman, N Senthil.2017. Proteomic analysis of growth promotional effects of biopriming in rice. *Int. J. Curr. Microbiol. App. Sci* 6 (11), 5471-5475
77. Ramesh, J, KN Senthil.2017. Stability indicating RP-HPLC method development and validation for the simultaneous determination of Vildagliptin and Metformin in pharmaceutical dosage form. *International Journal of Pharmacy and Pharmaceutical Sciences* 9 (3), 150-157
78. Jayaprakash, R, SK Natesan.2017. Optimization of stability indicating RP-HPLC method for the estimation of an anti-cancer drug sorafenib tosylate in pure and pharmaceutical dosage form. *Int. J. Pharm. Anal. Res.* 6 (1), 141-152
79. Raghu Duraisamy, Chandrasekar Arumugam, Senthil Natesan, Raveendran Muthurajan, Karthikeyan Gandhi, Pugalendhi Lakshmanan, GJ Janavi, Nageswari Karuppusamy, Mohan Chokkappan.2017. Host-Pathogen Interaction of Cassava (*Manihot esculenta* Crantz) and Cassava Mosaic Viruses (ICMV and SLCMV). *Int. J. Curr. Microbiol. App. Sci* 6 (7), 1305-1317
80. Arun Debbarma, J Jayaraj, P Chandramani, N Senthil, M Ananthan, K Prabakaran.2017. A Survey on Occurrence and Diversity of Insect Pests of Cauliflower in Dindigul and Theni Districts of Tamil Nadu, India. *Int. J. Curr. Microbiol. App. Sci* 6 (9), 2495-2505
81. Sathya, M, P Sumathi, N Senthil, S Vellaikumar, AJ Joel.2017. Direction of association among β -carotene, grain yield and its component traits in RIL population of pearl millet. *Electronic Journal of Plant Breeding* 8 (2), 548-553
82. Ganesan, KN, BS Kumara, N Senthil, D Kavithamani.2017. Influence of quality traits on green cob yield in hybrids of sweet corn (*Zea mays* L. *saccharata*). *Electronic Journal of Plant Breeding* 8 (1), 385-389
83. Jiji, J, P Sumathi, N Senthil.2017. Identification of high beta carotene lines in f5 generation of pearl millet [*Pennisetum glaucum* (L.) R. Br.]. *Int. J. Curr. Microbiol. App. Sci* 6 (5), 120-128
84. Ragavendran Abbai, Veera Ranjani Rajagopalan, Jagadeesh Selvam Nallathambi, Himanshu Dubey, Saranya Selvaraj, BC Varalakshmi, Sankari Mohan, Jagadish Kumar, Uma Maheswari, Raveendran Muthurajan, Senthil Natesan, Balasubramanian Ponnuswami, Sivasamy Murugasamy, Gon Sup Kim, Tilak Raj Sharma.2016. Proteomic analysis of compatible and incompatible interactions of wheat with *Puccinia triticina*. *Physiological and Molecular Plant Pathology* 96, 36-46

85. Rajasekaran, S, Rishi Mugesh Kanna, Ranjani Raja Reddy, Senthil Natesan, Muthuraja Raveendran, Kenneth MC Cheung, Danny Chan, Patrick YP Kao, Anita Yee, Ajoy Prasad Shetty.2016. How reliable are the reported genetic associations in disc degeneration?: The influence of phenotypes, age, population size, and inclusion sequence in 809 patients. *Spine* 41 (21), 1649-1660
86. Seram, D, N Senthil, M Pandiyan, JS Kennedy.2016. Resistance determination of a South Indian bruchid strain against rice bean landraces of Manipur (India). *Journal of Stored Products Research* 69, 199-206
87. Veera Ranjani, G Sreemol, Raveendran Muthurajan, Senthil Natesan, R Gnanam, Rishi M Kanna, S Rajasekaran.2016. Proteomic Analysis of Degenerated Intervertebral Disc-identification of Biomarkers of Degenerative Disc Disease and Development of Proteome Database. *Global Spine Journal* 6 (1_suppl), s-0036-1582631-s-0036-1582631
88. Takahashi, Yu Prakrit Somta, Chiaki Muto, Kohtaro Iseki, Ken Naito, Muthaiyan Pandiyan, Senthil Natesan, Norihiko Tomooka.2016. Novel Genetic Resources in the Genus *Vigna* Unveiled from Gene Bank Accessions. *PLoS One* 11 (1), e0147568
89. Perumal, S, M Jayakodi, DS Kim, T Yang, S Natesan.2016. The complete chloroplast genome sequence of Indian barnyard millet, *Echinochloa frumentacea* (Poaceae). *Mitochondrial DNA Part B* 1 (1), 79-80
90. Sumathi, K, KN Ganesan, N Senthil.2016. Evaluation of BC3F1 progenies against sorghum downy mildew in maize (*Peronosclerospora sorghi*).. *International Journal of Plant Sciences (Muzaffarnagar)* 11 (2), 228-232