

New experiment setup based on requirement

- A) Chilli: -
1. Identification of molecular markers for Phytophthora in chilli and comparison with resistant lines total sample 94 and total PCR 695
 2. Chilli Hybrid GOT Samples from Durkabeda & jaetgiri 192 samples
 3. Identification of molecular markers for GMS in chilli. (total 18 samples and using 2 samples for 40 SSR markers and 18 samples in 4 markers total PCR-152)
 4. Identification of molecular markers for LCV in chilli (8 Parent sample in 206 SSR Markers and all sample check total PCR-2034) Gel data analysis in progress, awaiting sample details.
 5. Chilli Hybrid VNR-145 samples test using ISSR & SSR markers (Samples from different location, total PCR-1202)
 6. Comparison between Chilli DHC lines and VNR-32, using VNR-32 validated Molecular markers (26 samples using 1 marker)
 7. Identification of Female plants based on Chilli Hybrid VNR-314 using hybrid specific validated molecular marker (13 samples including controls using 4 identified markers for VNR-314) samples from Mongrapal.
- B) Rice: -
1. Entomology samples from Dhaba sample analysis through Molecular marker (288 samples and total PCR-480)
 2. Rice sample from Foundation DEPT. (Big nursery & Normal nursery), Off-type Identification through Molecular marker. (31 samples tested from 8 RM markers)
 3. Rice Hybrid VNR2245 and T&D sample Comparison through molecular marker (8 samples with 30 RM Markers total PCR 240)
 4. PCR Analysis of rice hybrid VNR-2111 (17 off-type and 5 hybrid) sample from Production dept (Hariprasad sir). (22 samples using 6 RM markers)
 5. PCR Analysis of rice sample from Production dept. (Hariprasad sir) (60 samples tested with 7 RM markers)
 6. PCR Analysis of rice FCN sample from Hyderabad which was further given for rice Microarray assay. (10 samples tested with 25 Rice & RM Markers)
 7. Rice Blast samples from Greenhouse PCR analysis (4 samples tested in 22 RM markers)
- C) Bitter Gourd
1. Bitter gourd Hybrid 72038 parent (sample from different location) Comparison from validated sample and 3 lot sample from quality dept.
 2. PCR Analysis of VNR-72038 Female, Male, Hybrid samples from Production line, breeder line comparison with validated sample. (Total PCR 1164)
 3. Bitter gourd Hybrid 72034 parent (sample from different location) Comparison from validated sample and 3 lot sample from quality dept.
 4. Bitter gourd Hybrid VNR-76008 hybrid 3 lot sample from quality dept. for Validation of marker.
 5. Bitter gourd Hybrid VNR-72038, 69 hybrid samples for Molecular Marker validation (Total 5-marker used). But not yet completed due to sample containing female plant as shown by marker.
 6. DNA isolation was carried out in 2245 samples (2 repeat set) in 1220 breeding line from Jagdalpur.
- D) Maize
1. Identification of polymorphic Maize SSR marker in comparison of 15-IC lines with RP MEL-26 & OP MEL-12. (Total 9-Maize SSR Marker used)
 2. Identification of polymorphic SSR marker and parent analysis of C4035 & C4038 Hybrid.
 3. Maize hybrids (C4035 & C4038) Identified Molecular marker where compare with True type and off-type samples & C4035 & C4038.
 4. DH Identification in maize sample using molecular marker (17 sample and 16 Maize SSR marker was used)
 5. Identification of Polymorphic Molecular marker for Maize NCLB samples.
- E) Brinjal: - Brinjal SSR Marker Analysis Using Samples from tissue culture. (Embryo rescue)
- F) Muskmelon – Identification of polymorphic Molecular marker for fusarium in muskmelon.
- G) Bittelgourd – Identification of VNR-Haruna hybrid samples using validated SSR marker to this hybrid.
- H) Papaya – Identification of Transgenic Papaya sample using Molecular marker.
- I) AppleBer- Samples comparison with VNR AppleBer mother plant with 438 samples using identified molecular marker.
- J) Tomato - Red-stem & Green-stem tomato VNR-3171 sample (from Chawada bag -PAHARA) Analysis using Tomato SSR Markers.