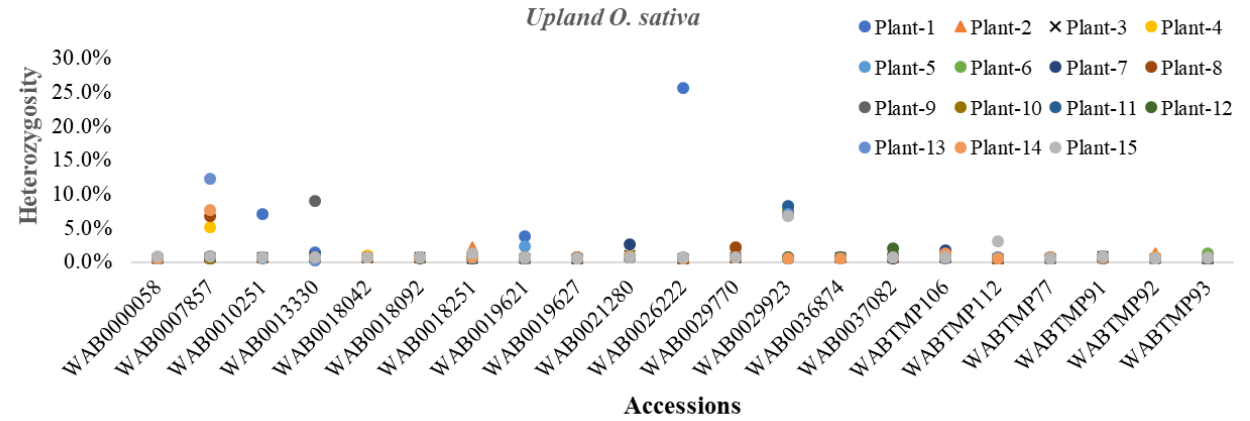
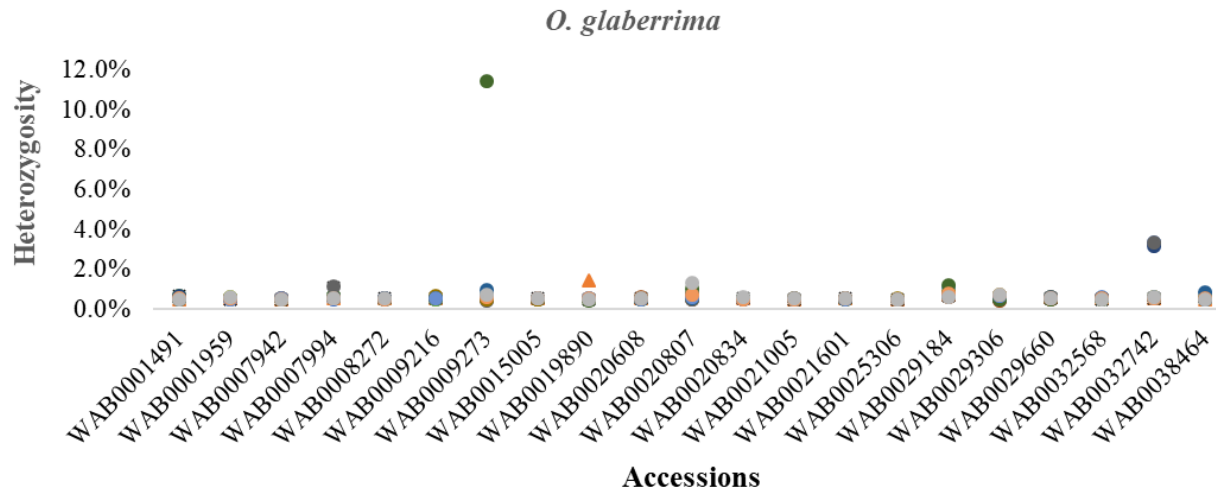
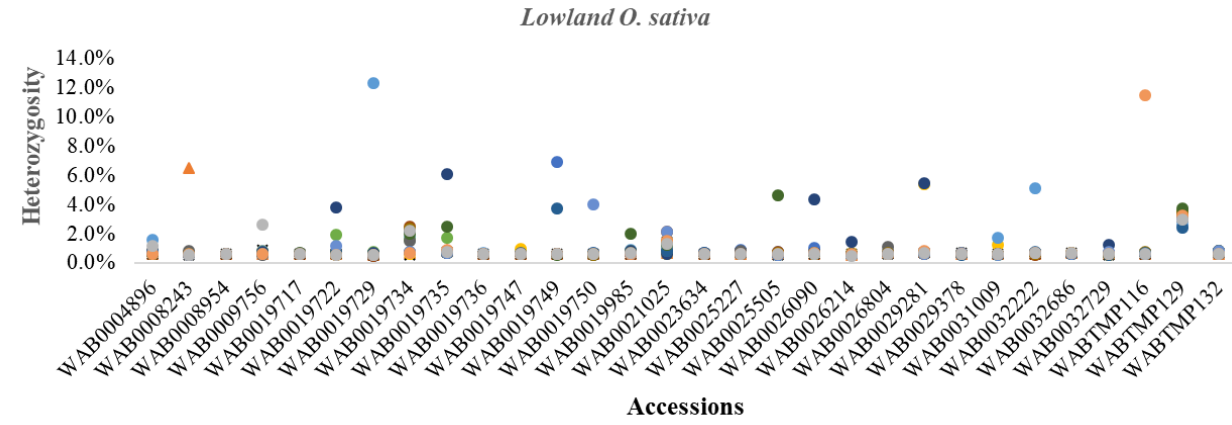
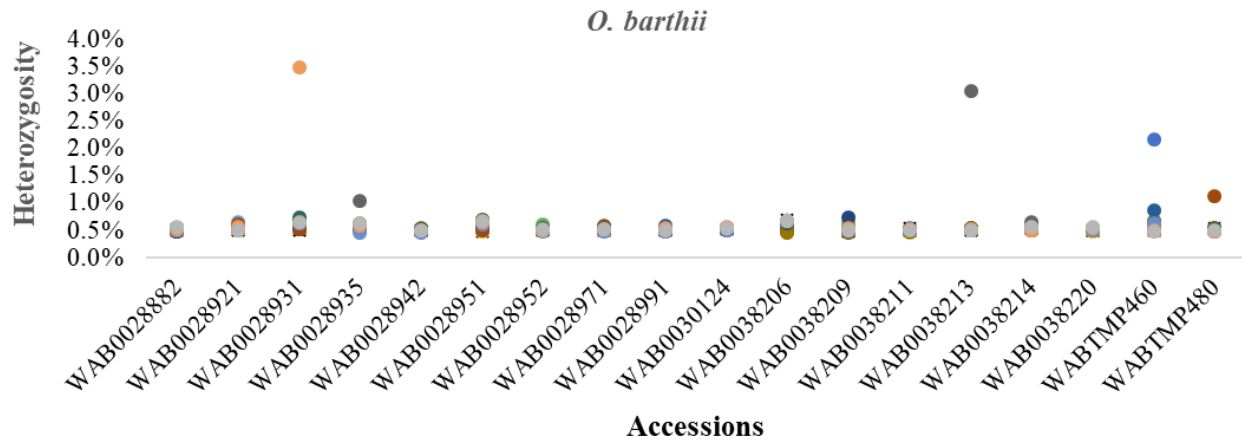


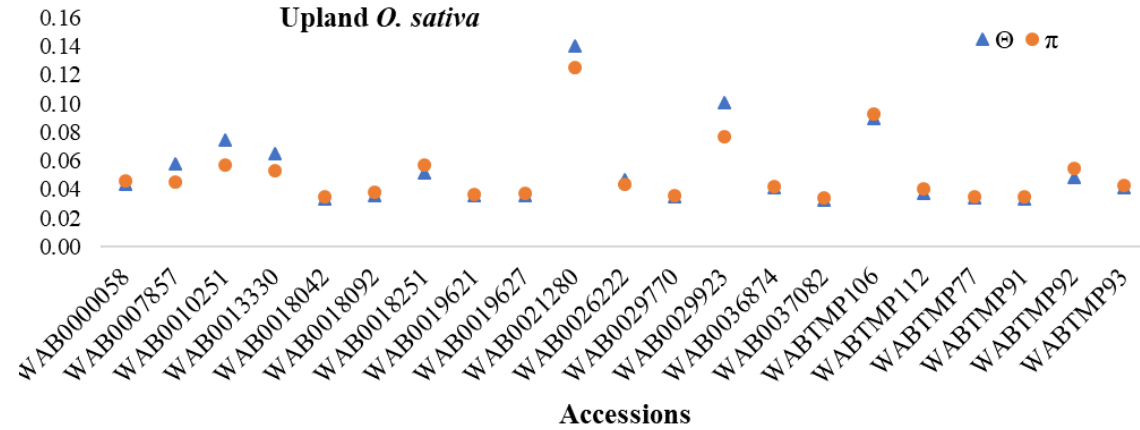
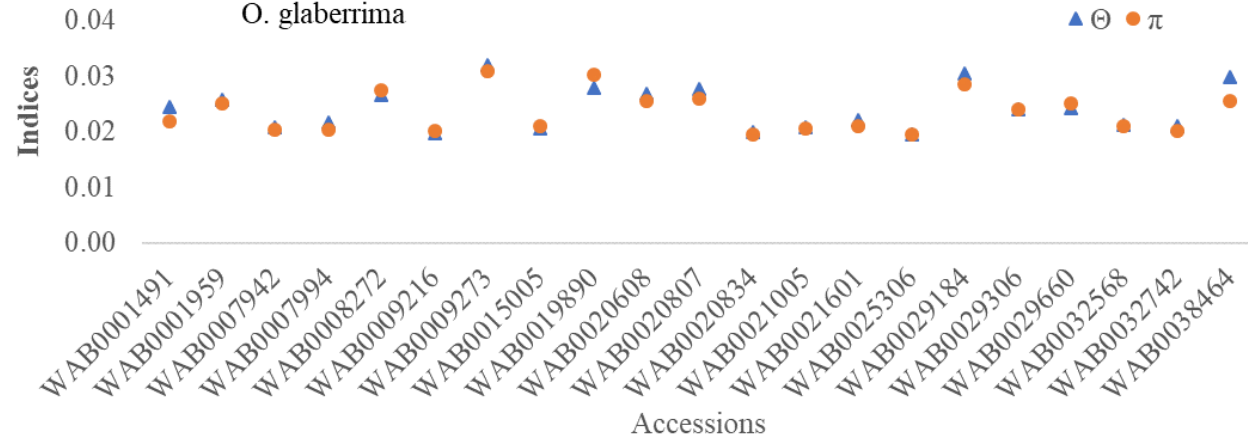
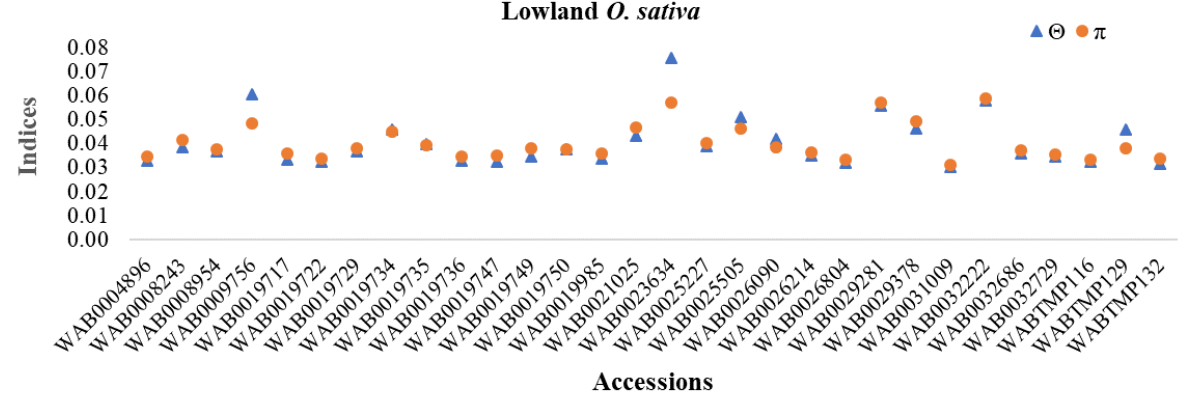
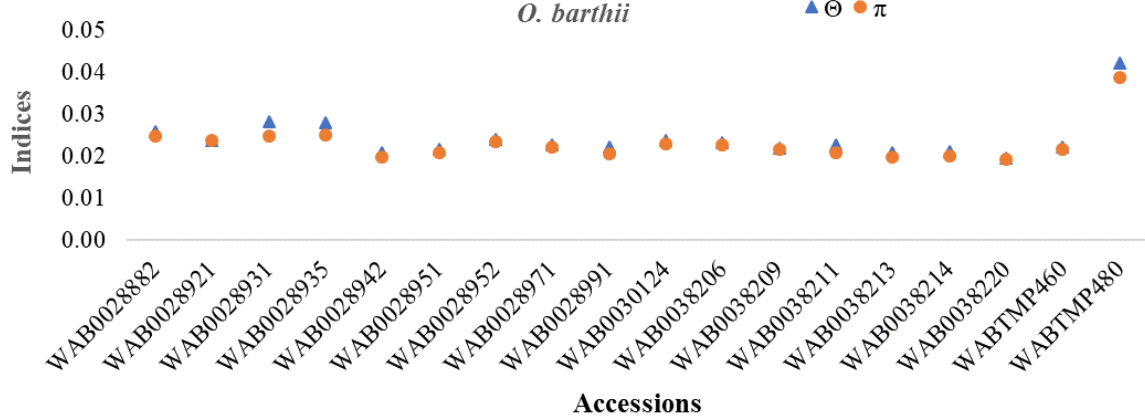
Comparisons of sampling methods for assessing intra- and inter-accession genetic diversity in three rice species using genotyping by sequencing

Arnaud C. Gouda, Marie Noelle Ndjiondjop, Gustave L. Djedatin, Marilyn L. Warburton, Alphonse Goungoulou, Sèdjro Bienvenu Kpeki, Amidou N'Diaye, and Kassa Semagn

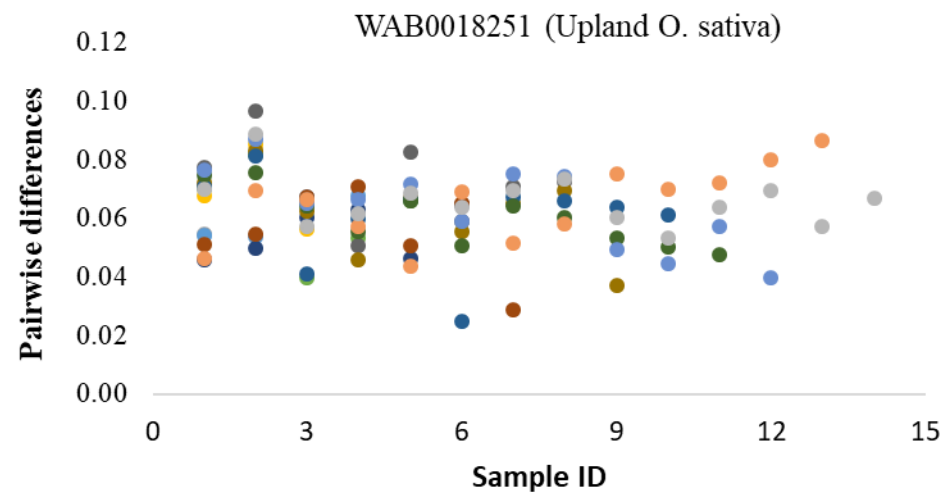
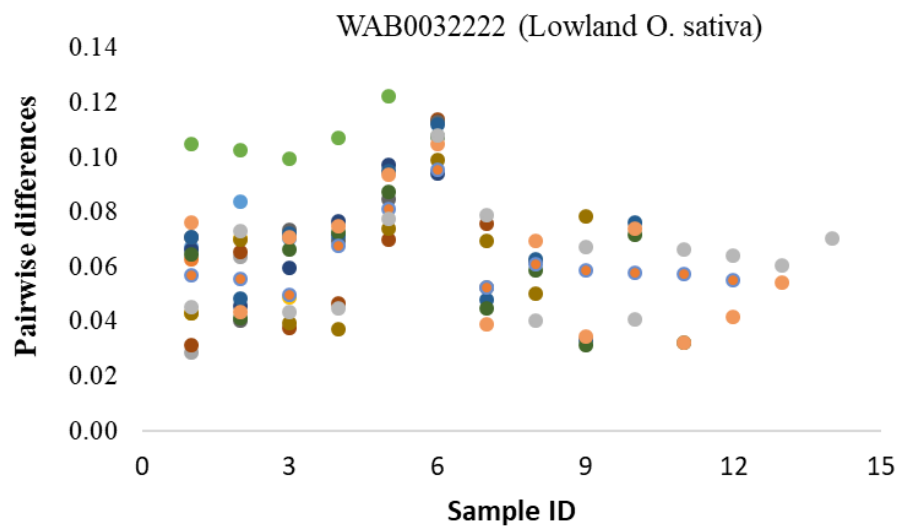
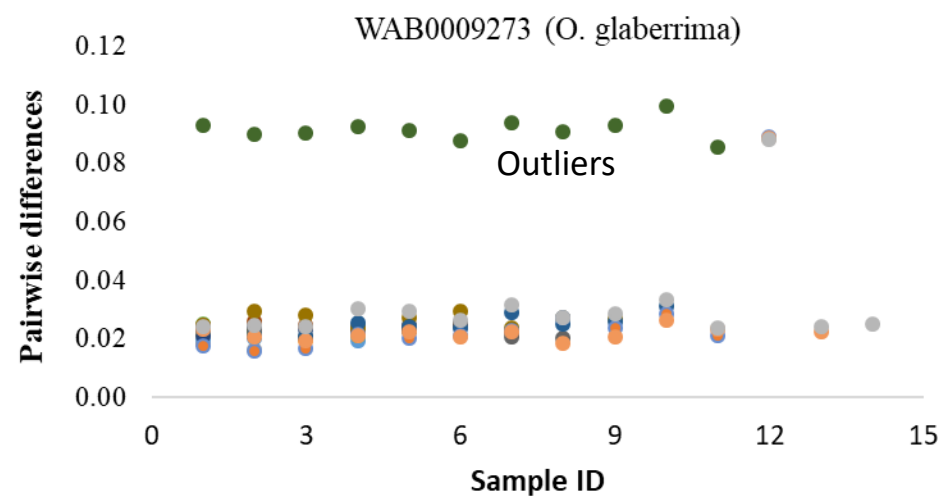
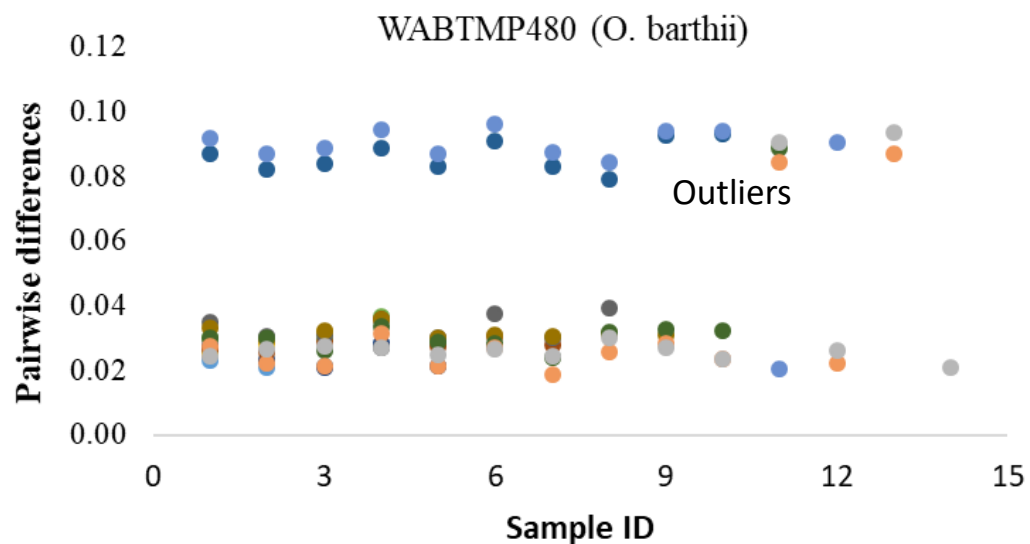
Supplementary Fig. S1 A plot of observed heterozygosity for 90 accessions, each represented by 15 individuals genotyped with 48,818 SNPs.

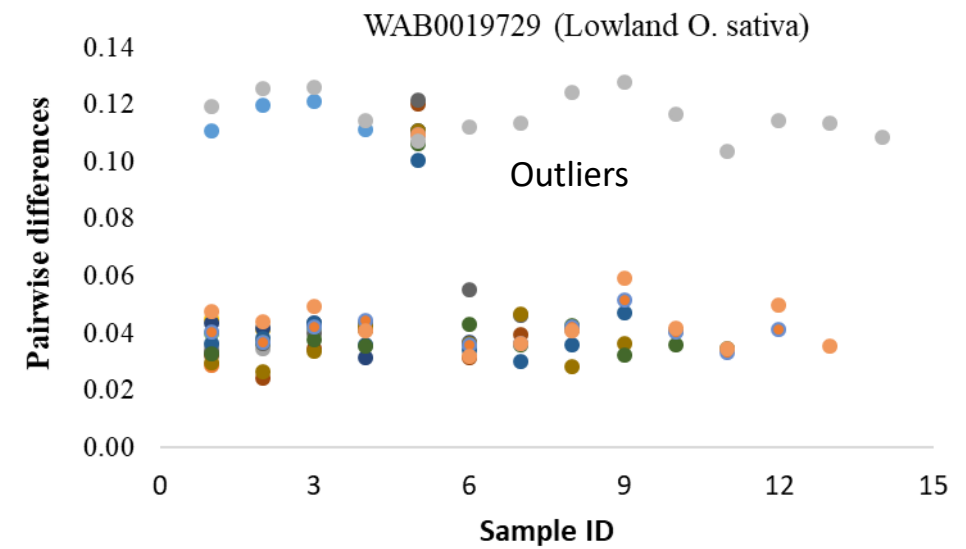
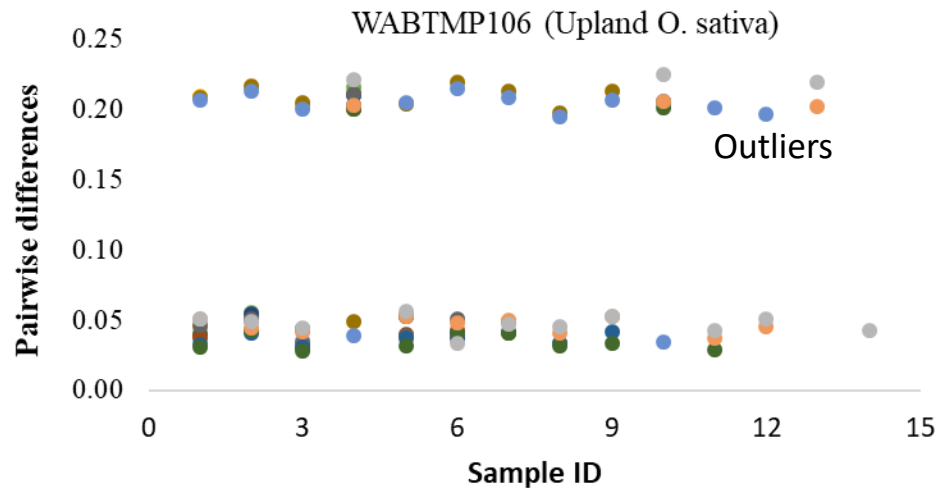
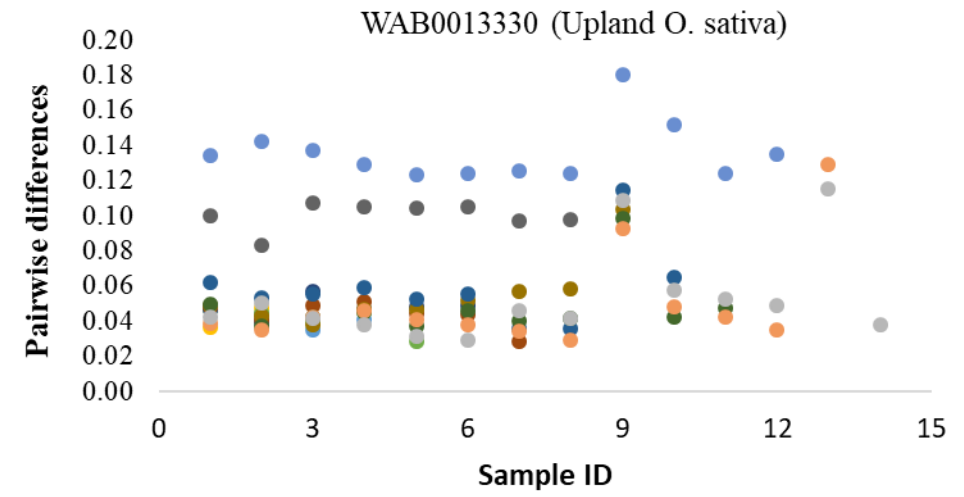
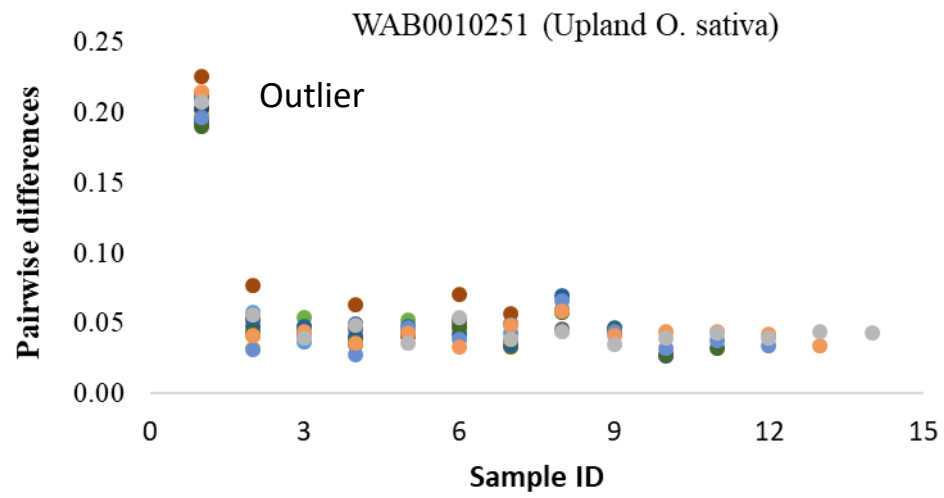


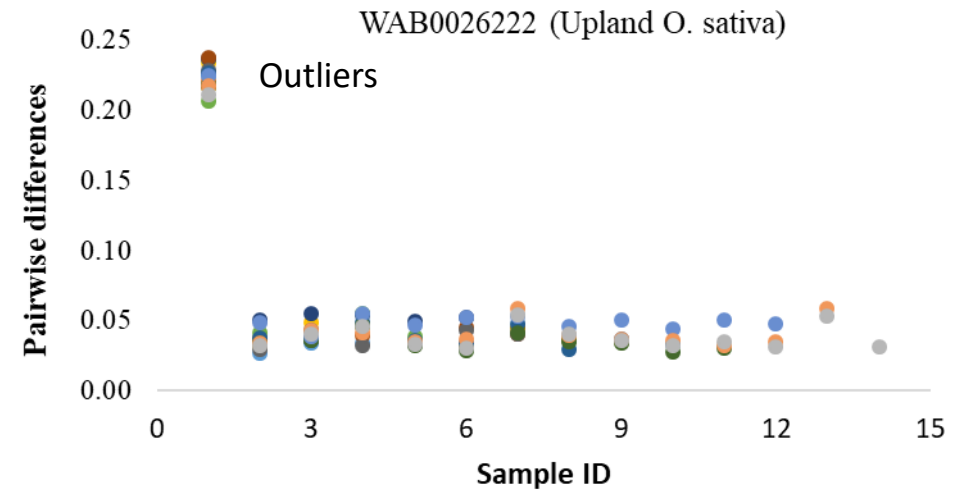
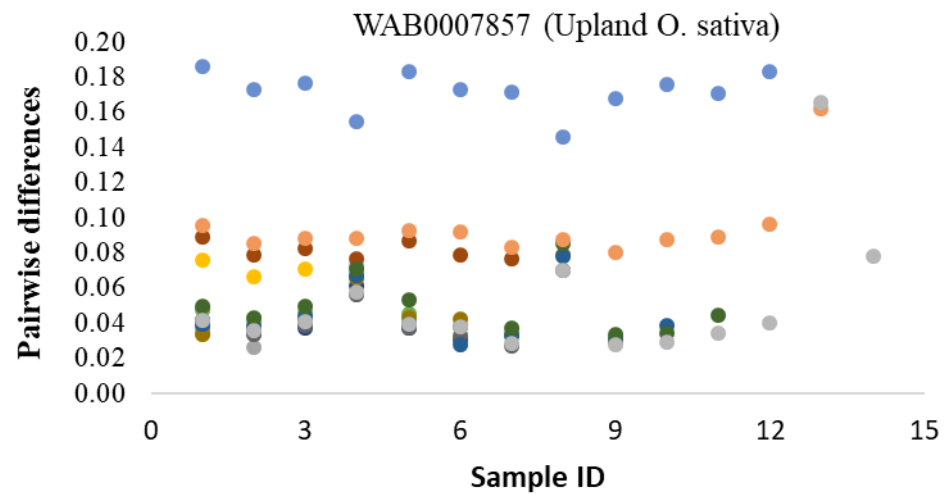
Supplementary Fig. S2 Summary of theta (θ) and nucleotide diversity (π) computed as measures of intra-accession genetic diversity across 90 accessions, each represented by 15 single plant DNA samples genotyped with 48,818 SNPs.



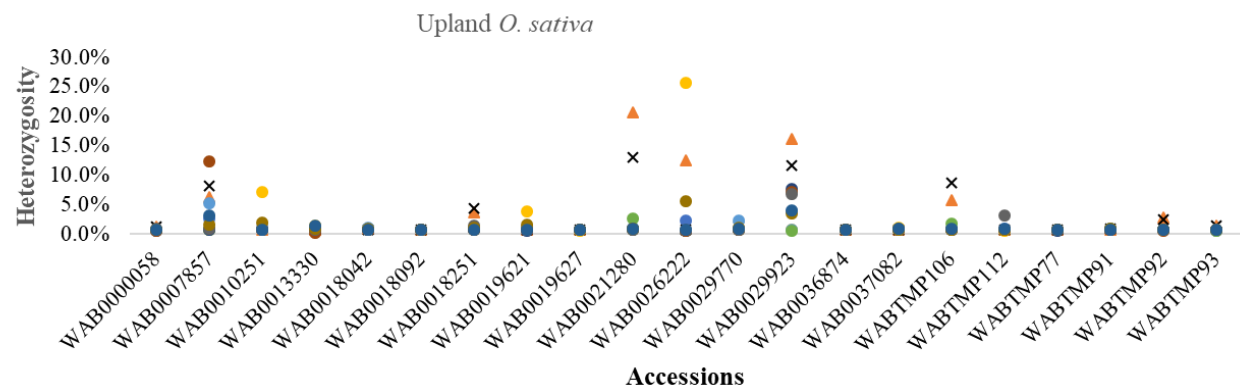
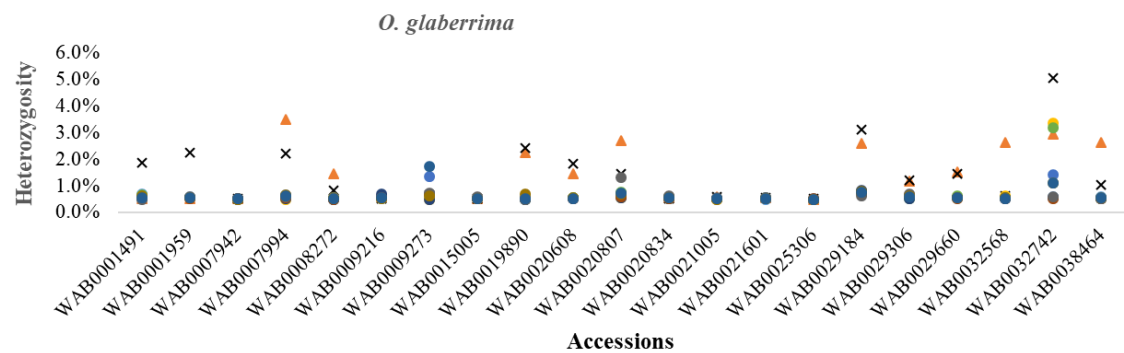
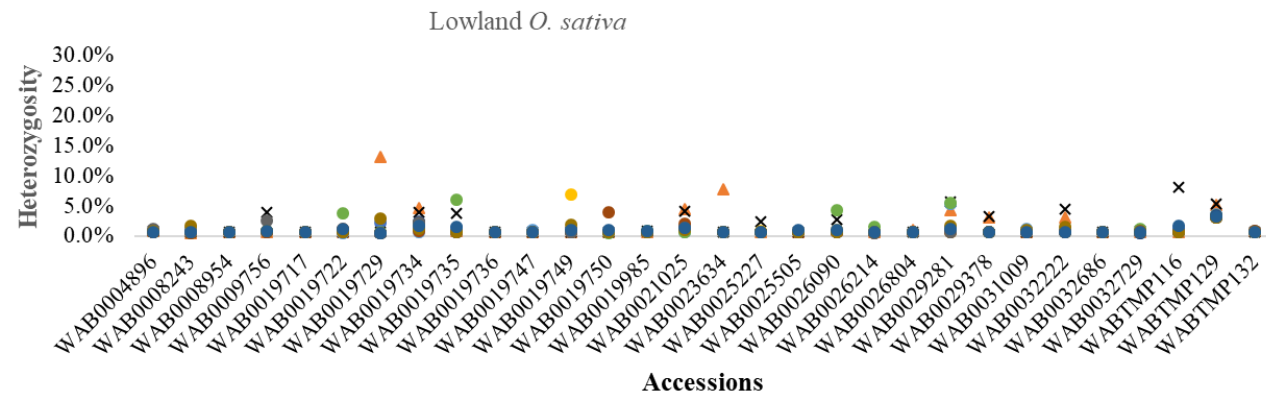
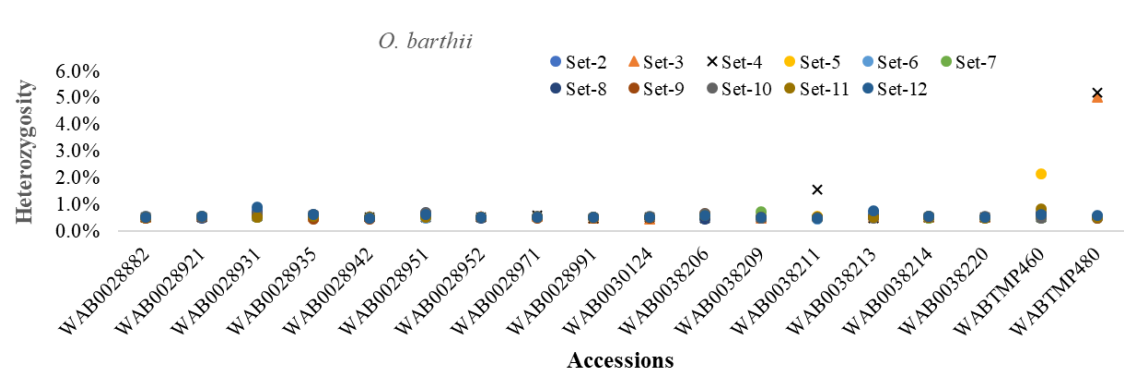
Supplementary Fig. S3 A plot of identity-by-state-based genetic distance computed in 10 accessions, each represented by 15 single plant DNA samples genotyped with 48,818 SNPs.

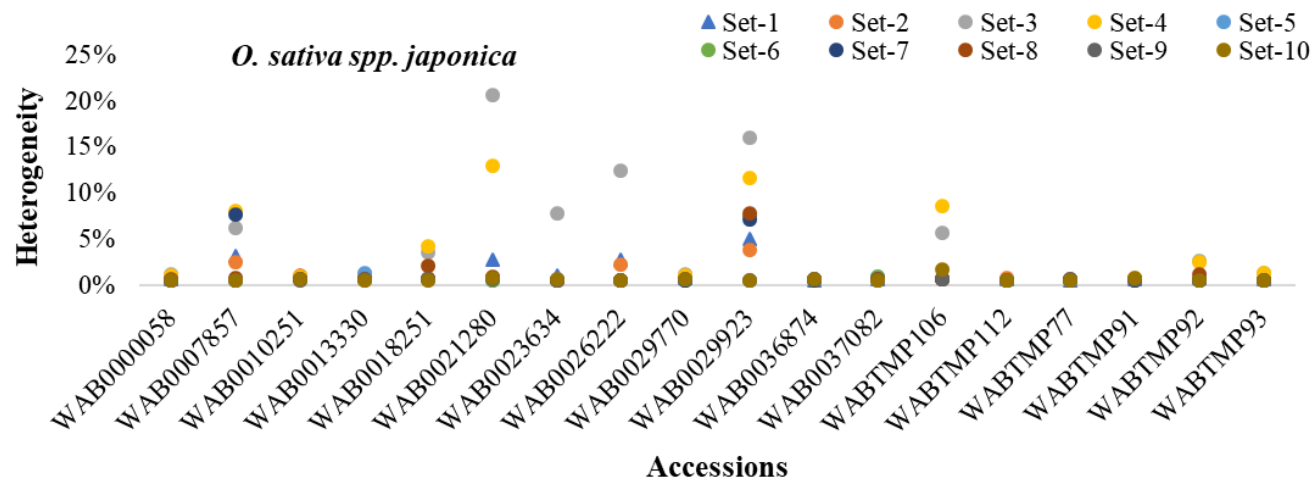
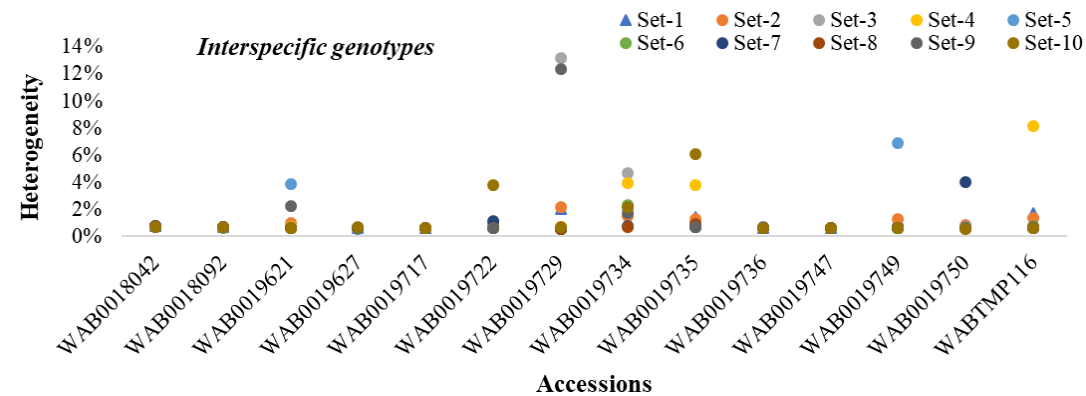
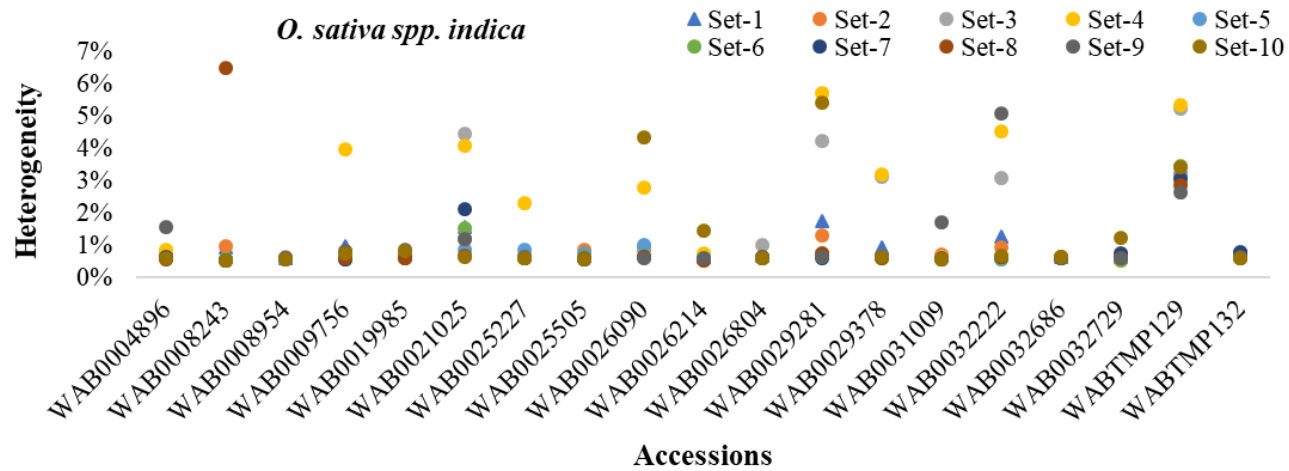




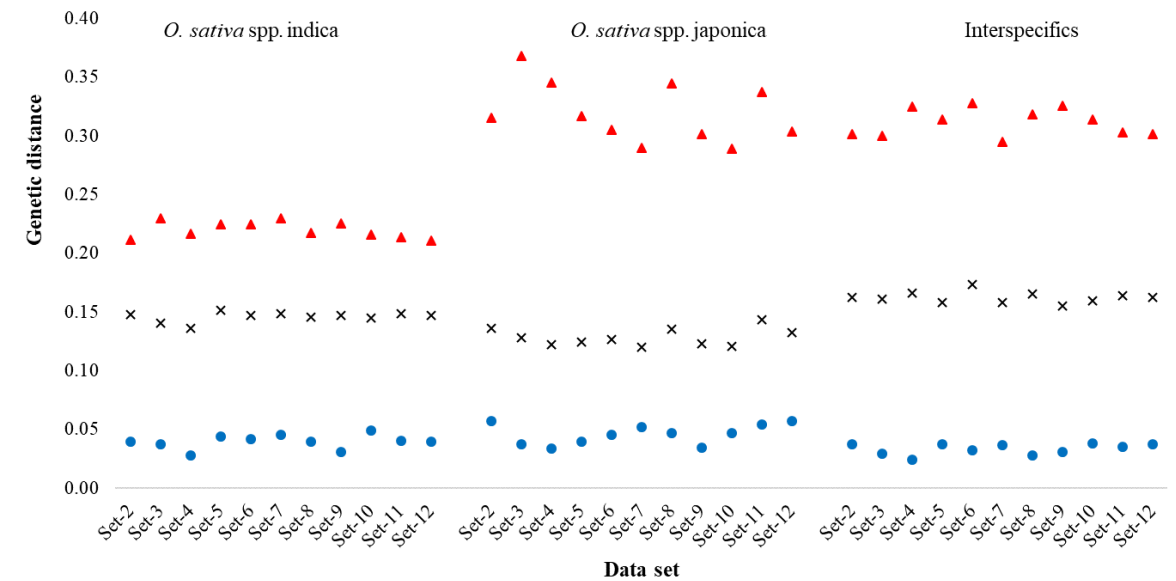
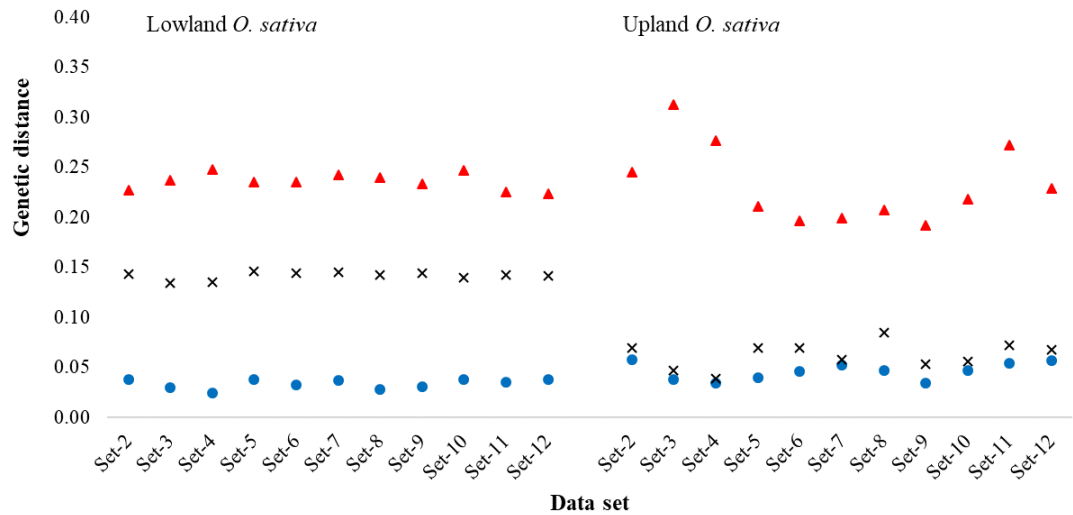
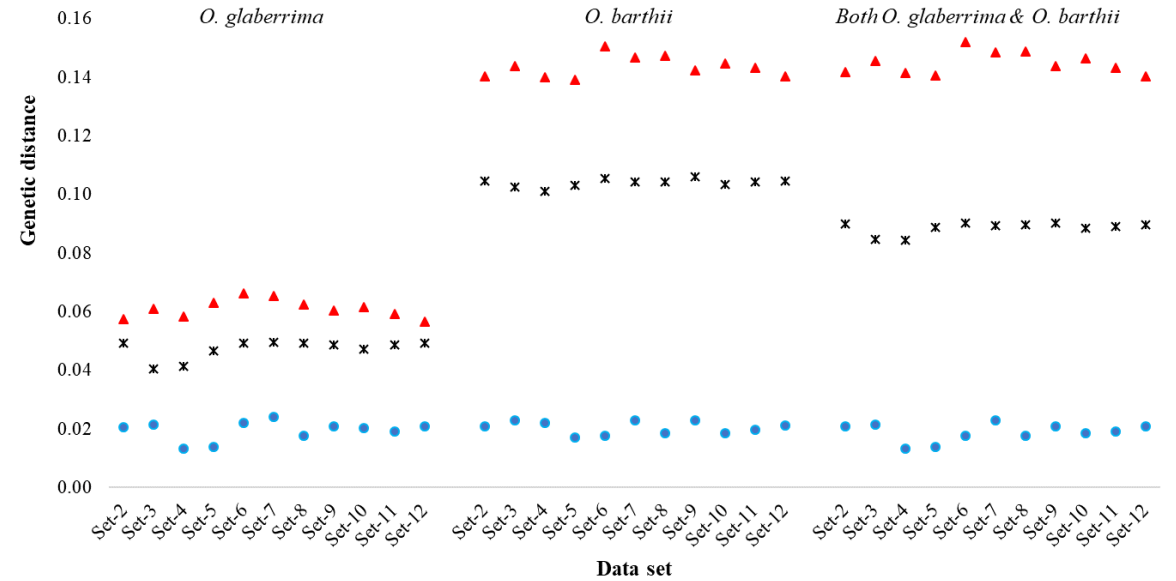
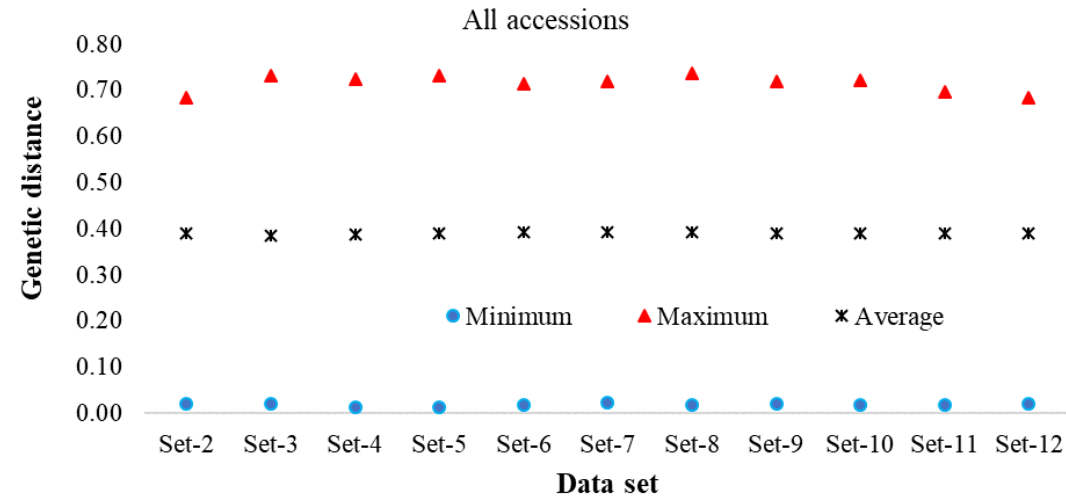


Supplementary Fig. S4 Summary of observed heterozygosity across 90 accessions using eleven datasets, each consisting of 46.818 SNPs. In Set-2, Set-11, and Set-12, every accession is represented by the average heterozygosity of the 5-15 individual DNA samples. See Supplementary Table S3 for details.

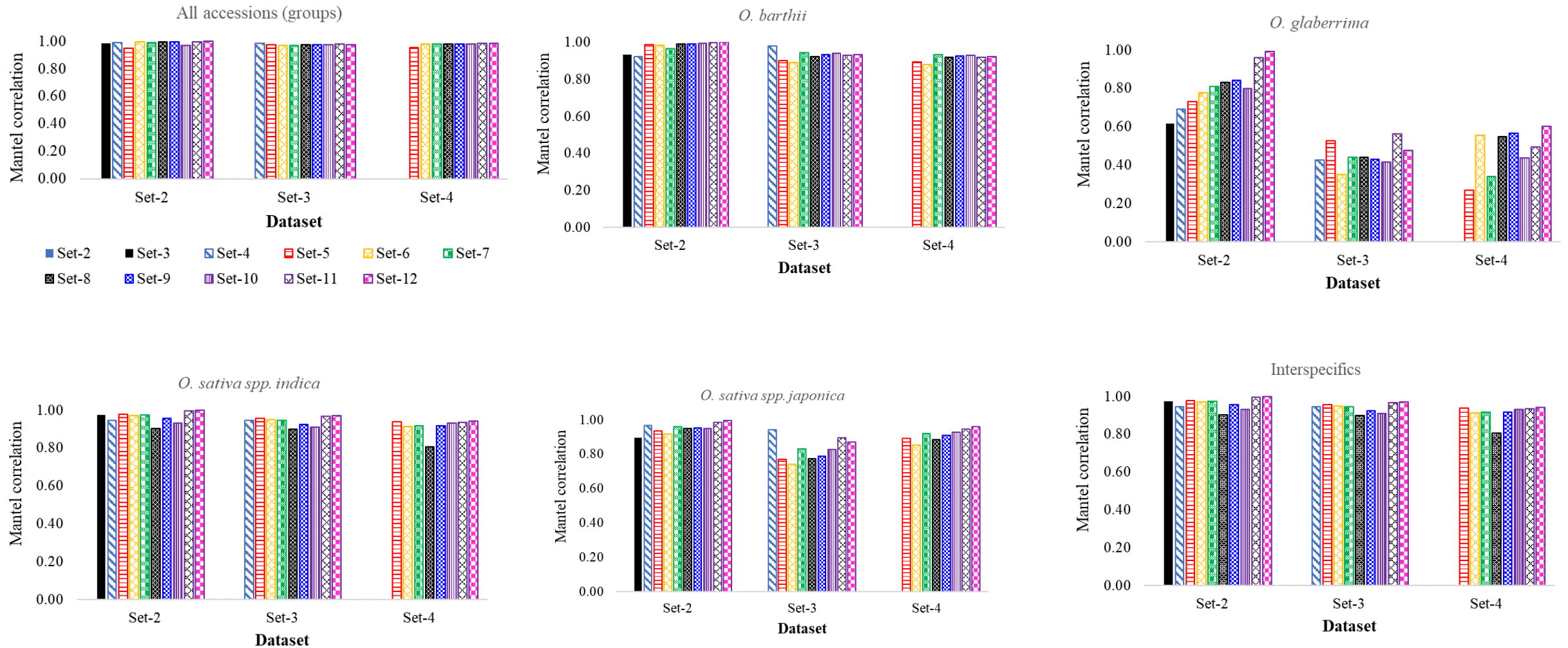




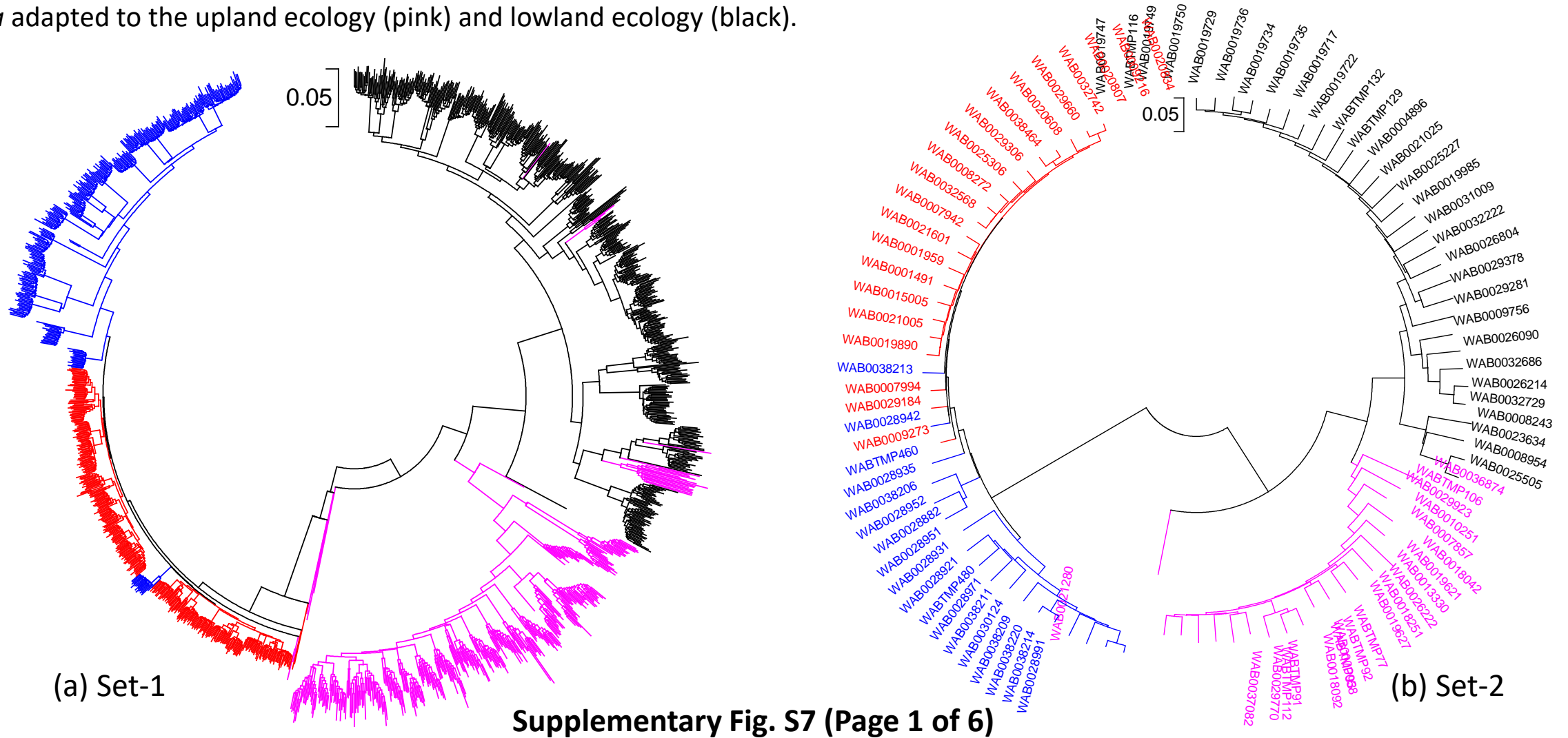
Supplementary Fig. S5 Comparisons of the minimum, maximum and average maximum composite likelihood genetic distance between a pair of accessions using eleven datasets.

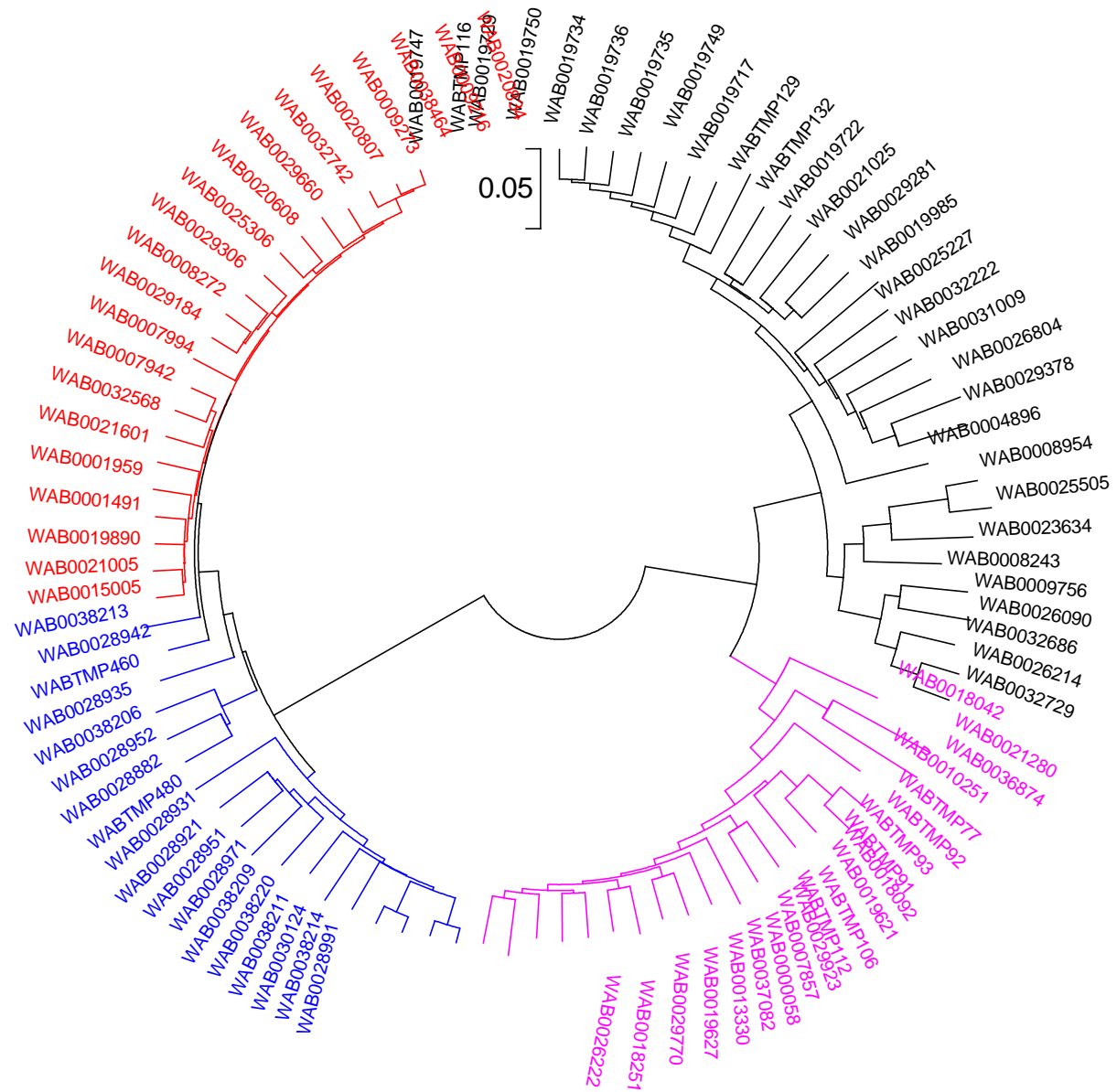


Supplementary Fig. S6 Summary of the Mantel correlations between genetic distance matrices computed from all datasets corresponding to 15 plants (Set-2), bulks of 5 plants (Set-3), bulks of 10 plants (Set-4) and randomly selected single plants out of Set-2 (Set-5 to Set-10). See Supplementary Table S9 for details.

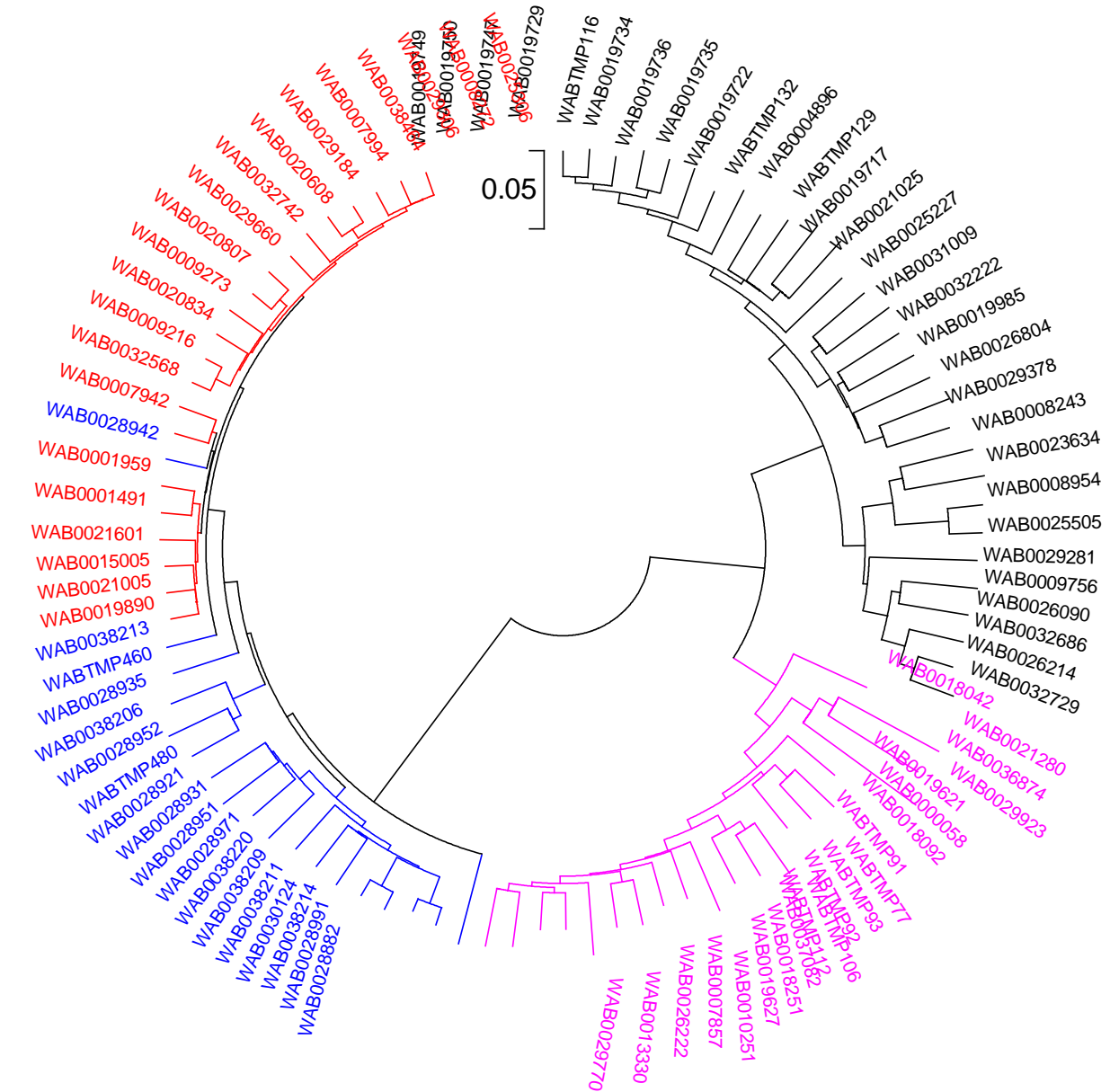


Supplementary Fig. S7 Neighbor-joining tree of 90 accessions based on maximum composite likelihood genetic distance matrices computed from 46,818 SNPs. Each accession was represented by (a) 17 DNA samples (15 individuals plus two bulks of 5 or 10 plants); (b) an average of 15 individuals (Set-2), (c) bulks of 5 plants (Set-3), (d) bulks of 10 plants (Set-4), (e-j) a randomly selected individual out of Set-2, which is repeated 6-times (Set-5 to Set-10), (k) an average of 5 individuals (Set-11) and (l) an average of 10 individuals (Set-12). Both Set-11 and Set-12 form Set-2. Accessions are colored depending on their species and/or group: *O. glaberrima* (red), *O. barthii* (blue), *O. sativa* adapted to the upland ecology (pink) and lowland ecology (black).

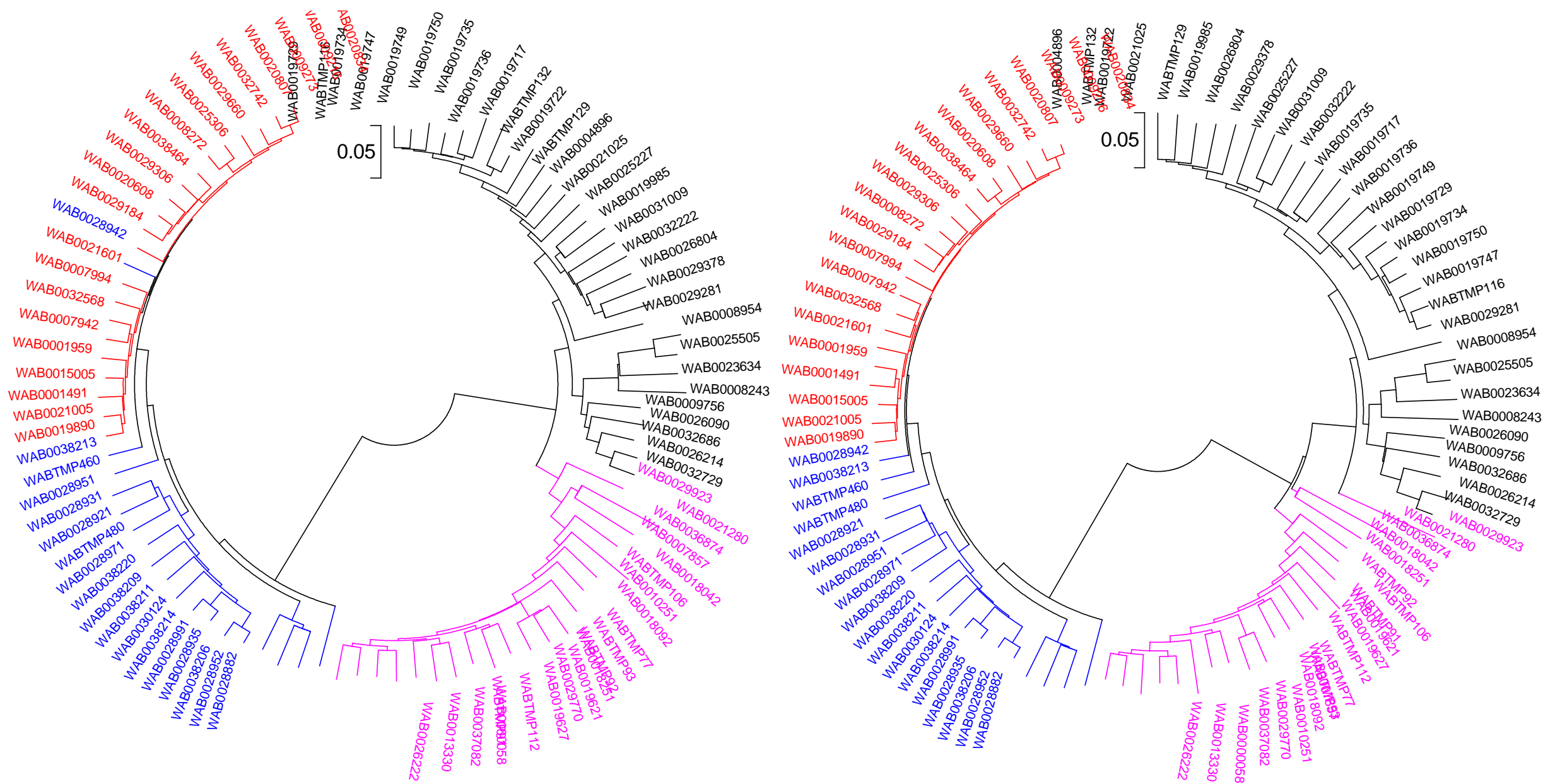


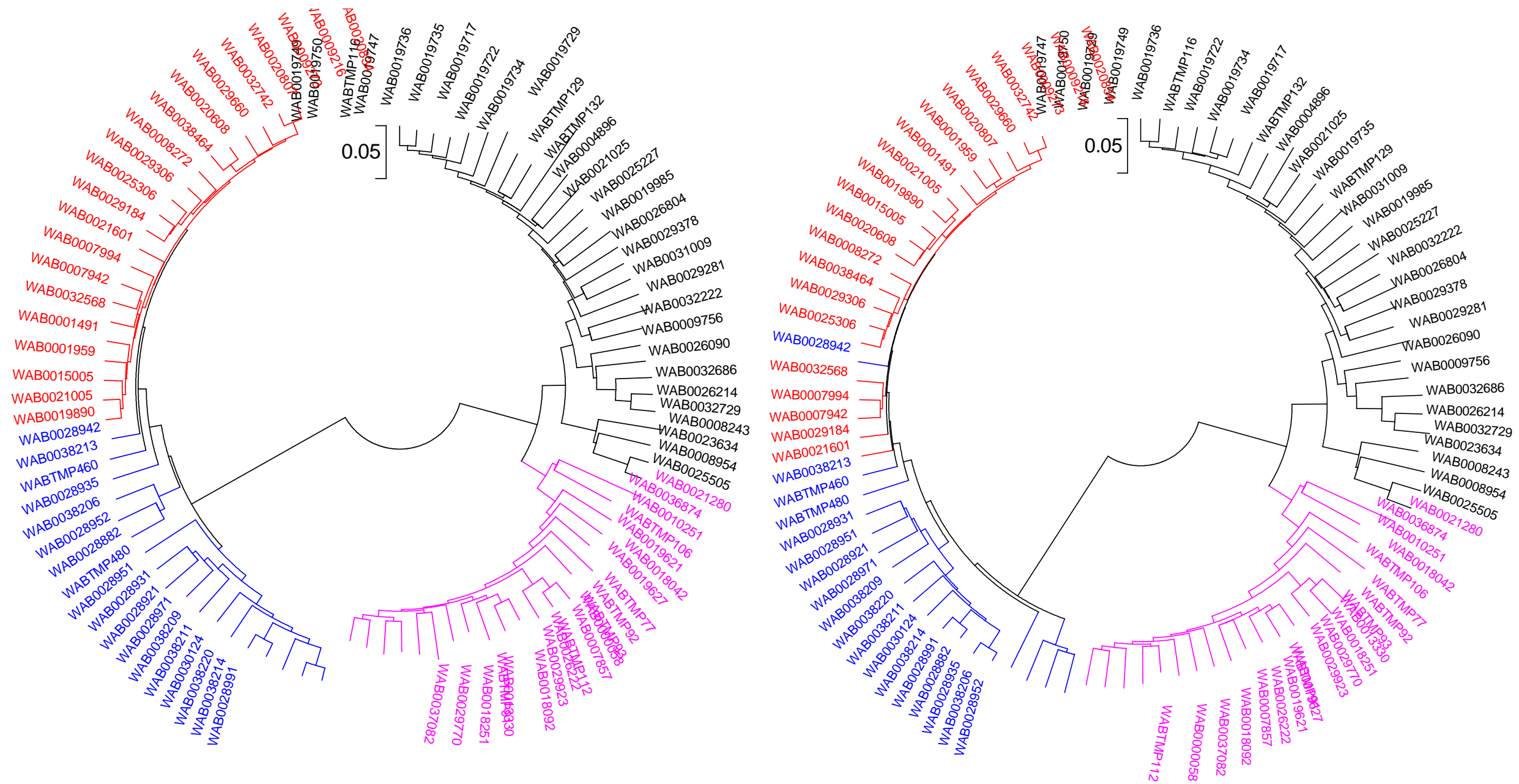


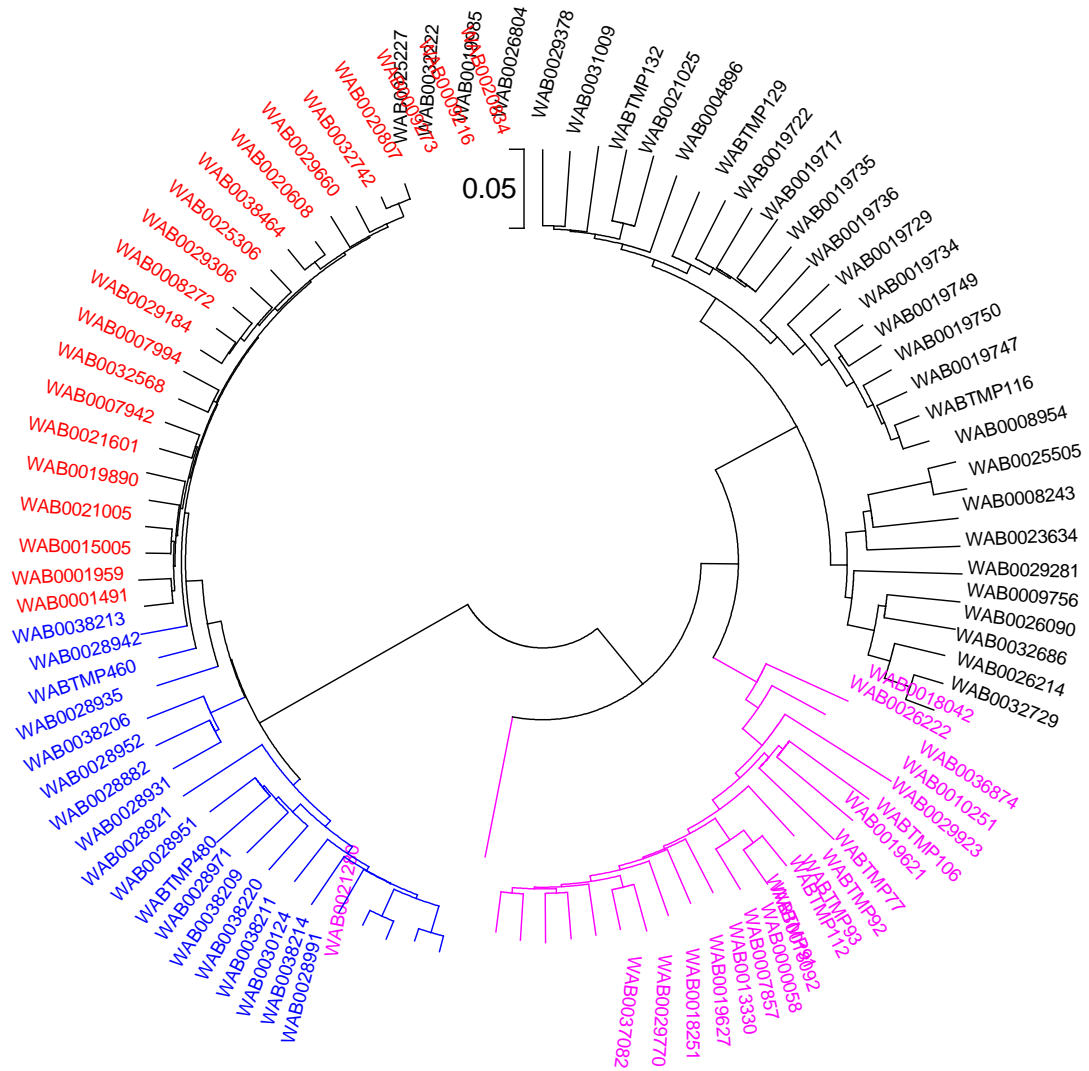
(e) Set-5



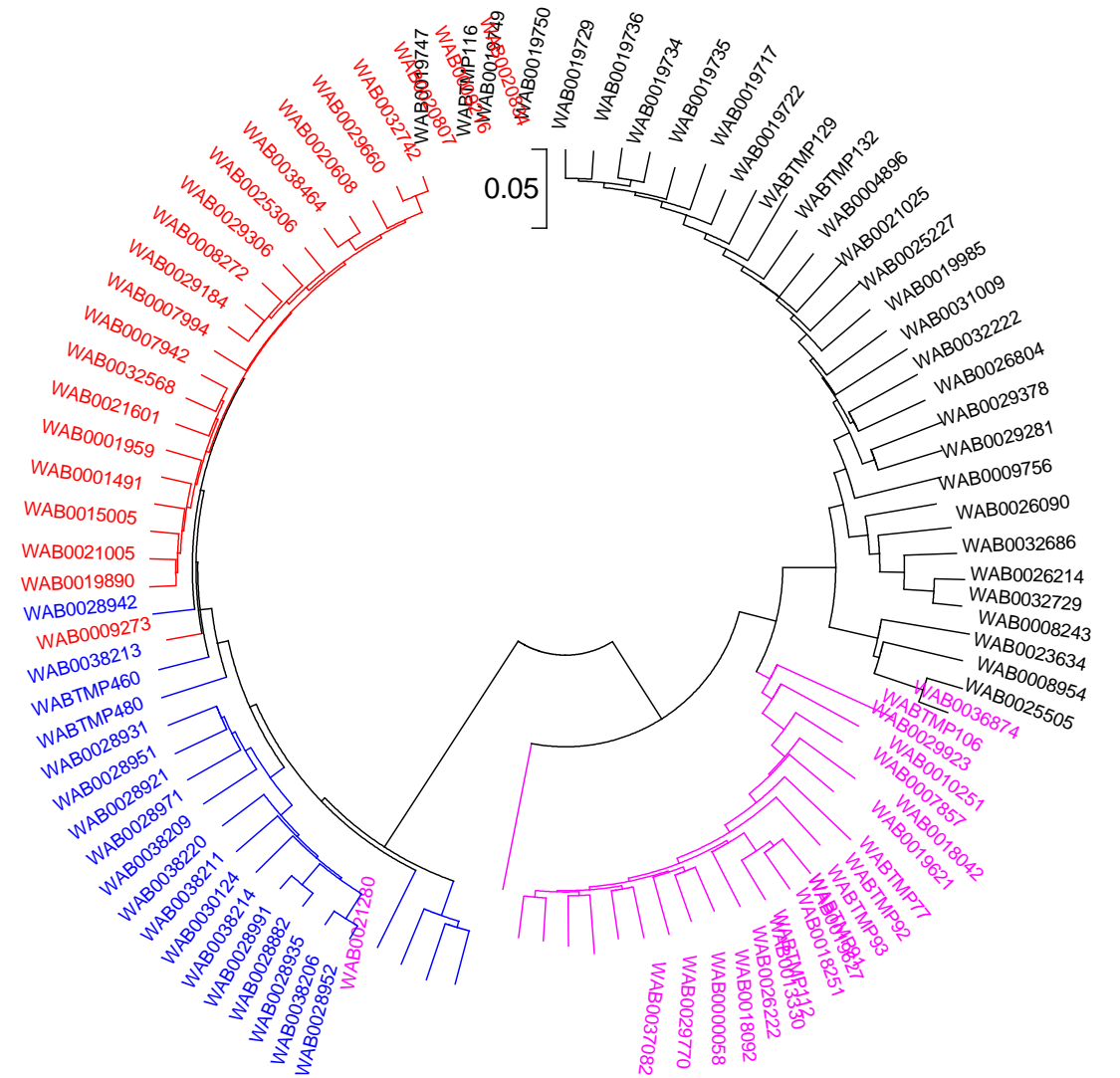
(f) Set-6





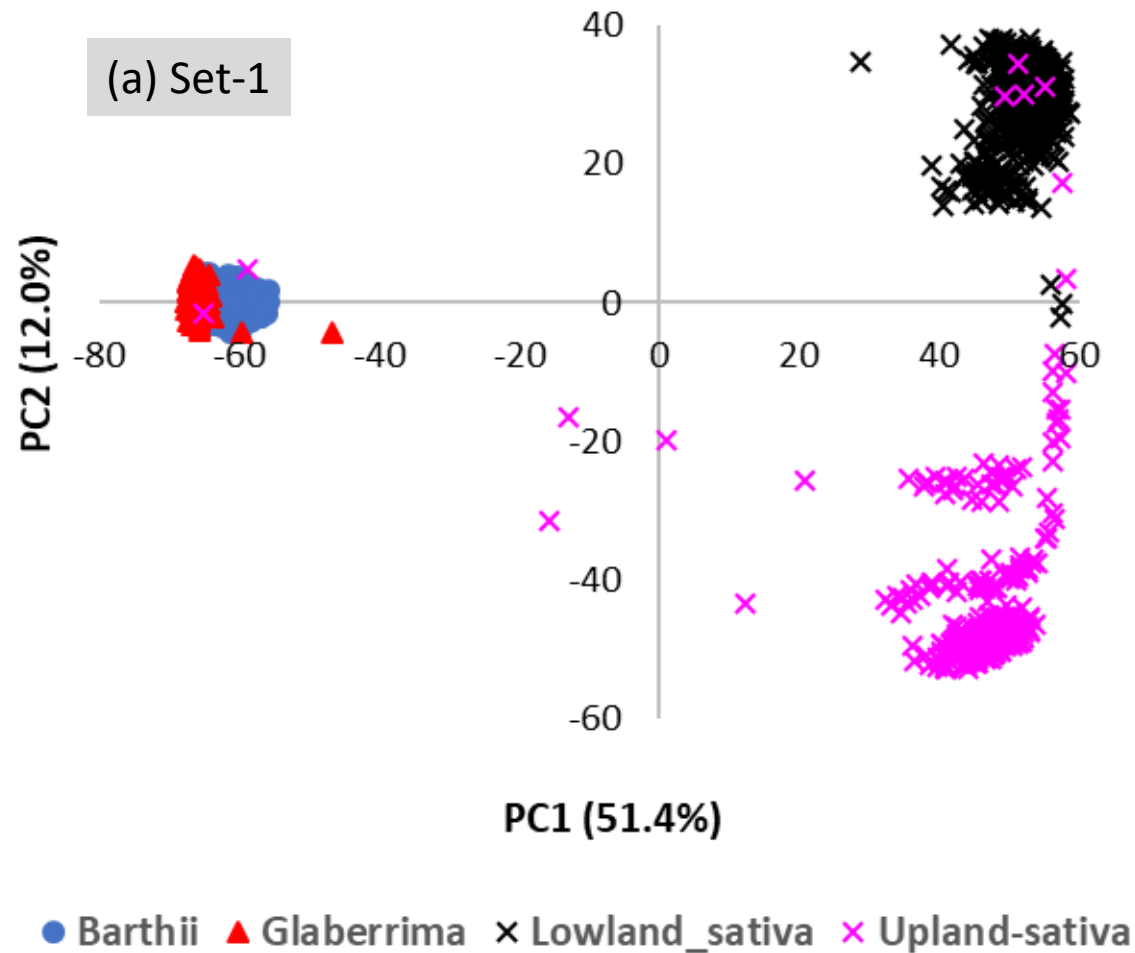


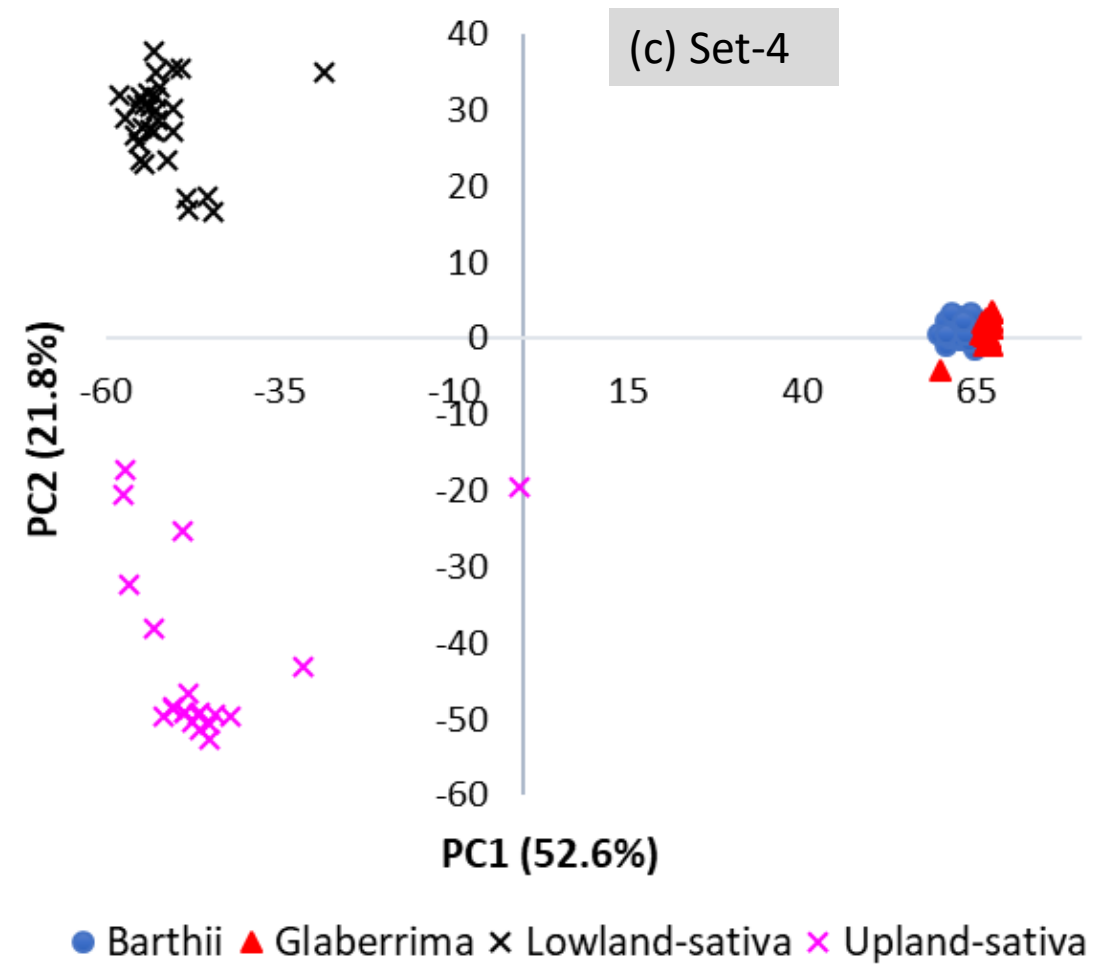
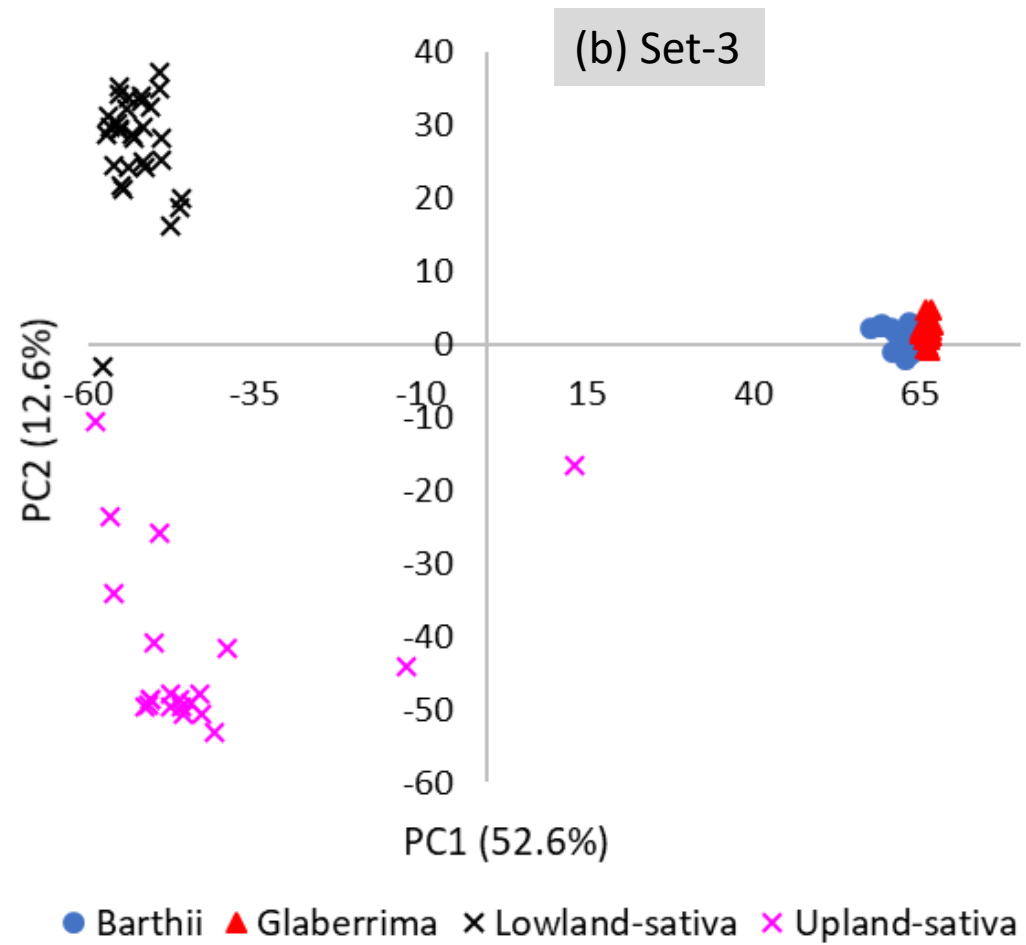
(k) Set-11

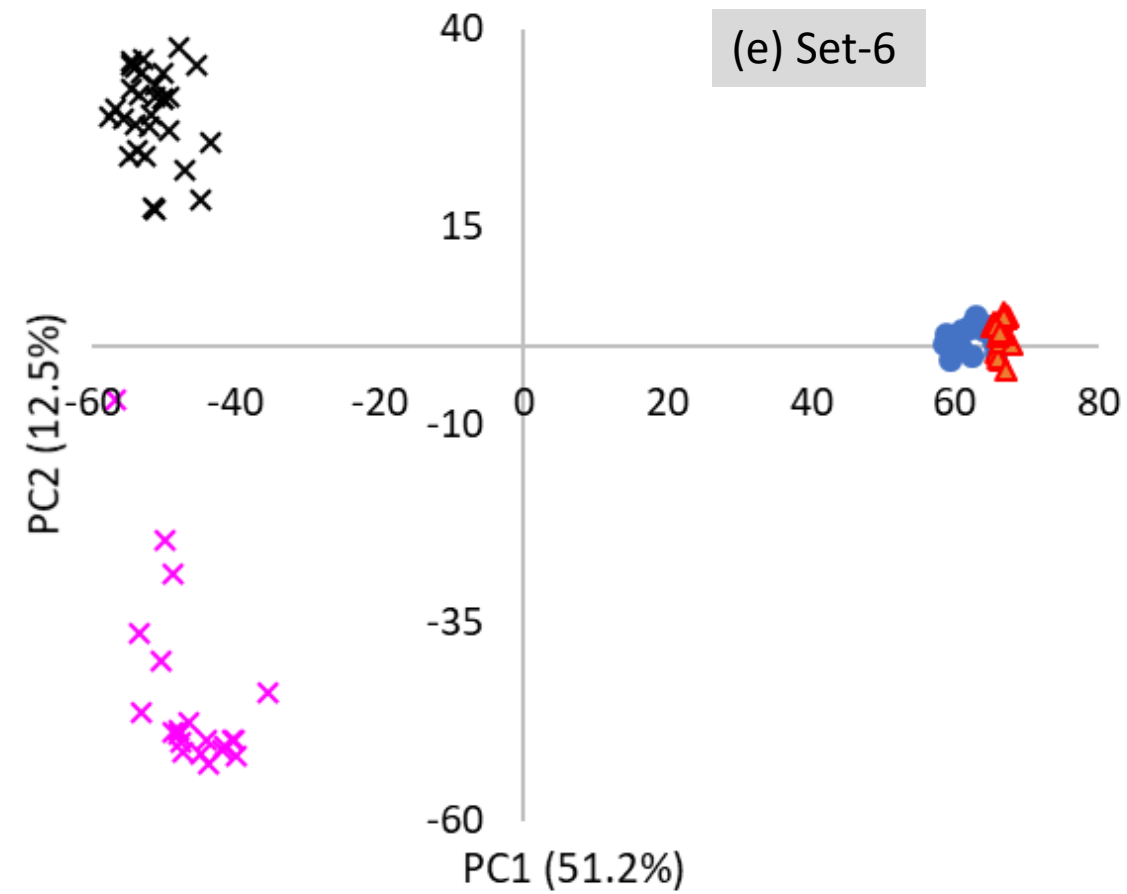
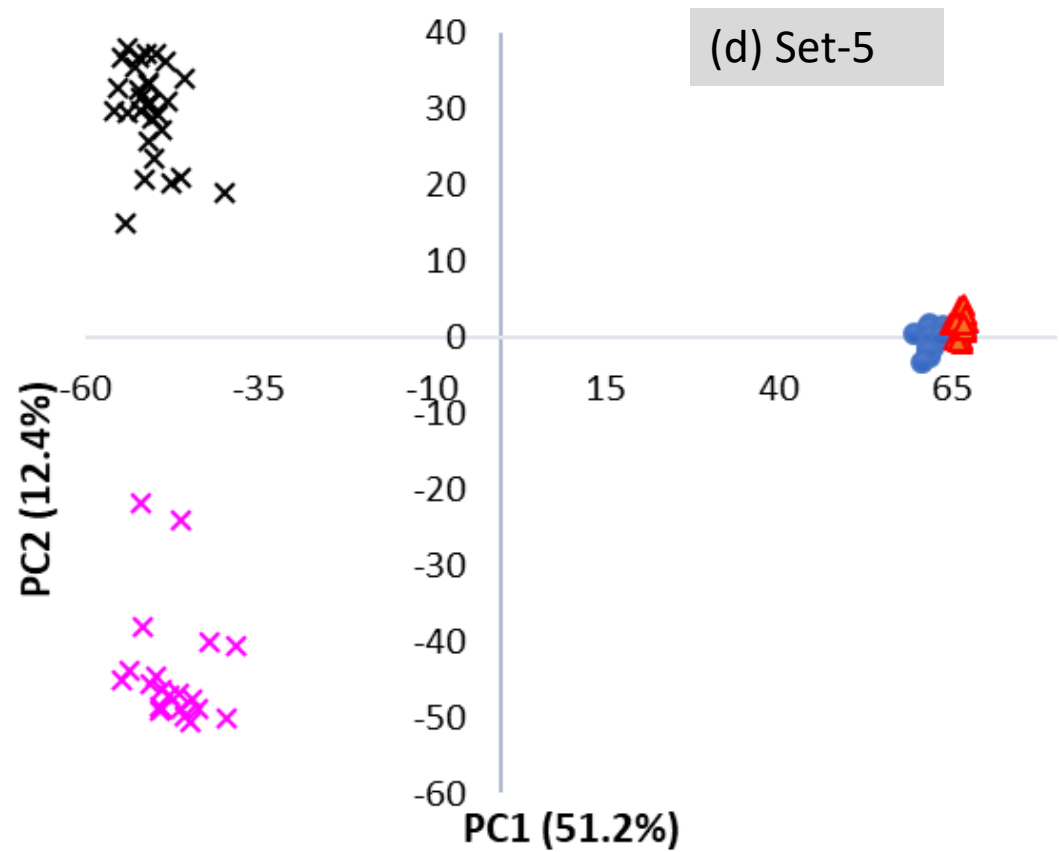


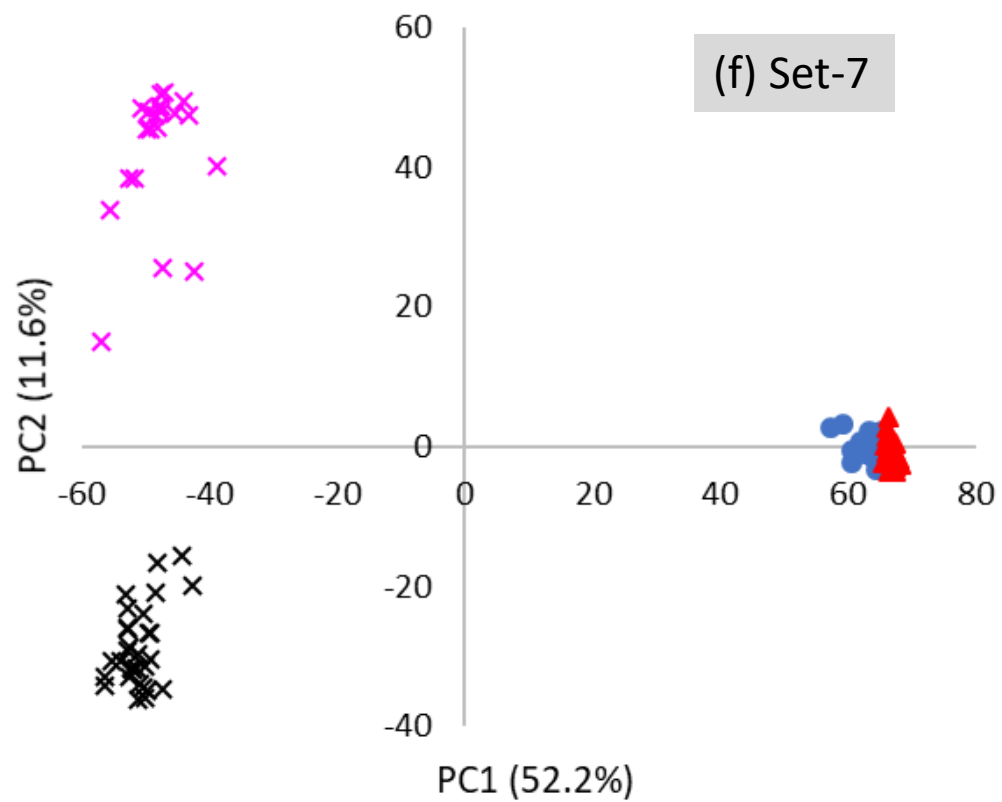
(L) Set-12

Supplementary Fig. S8 Plots of PC1 and PC2 from principal component analyses of 90 accessions based on 46,818 SNPs. Each accession was represented by (a) 17 DNA samples consisting of 15 individuals plus two bulks of 5 plants and 10 plants (Set-1); (b) bulks of 5 plants (Set-3); (c) bulks of 10 plants (Set-4); (d-i) a randomly selected individual out of Set-2, which is repeated 6-times (Set-5 to Set-10); (j) an average of 5 individuals (Set-11); and (k) an average of 10 individuals (Set-12). Both Set-11 and Set-12 form Set-2. Accessions are colored depending on their species and/or group: *O. glaberrima* (red), *O. barthii* (blue), *O. sativa* adapted to the upland ecology (pink) and lowland ecology (black).

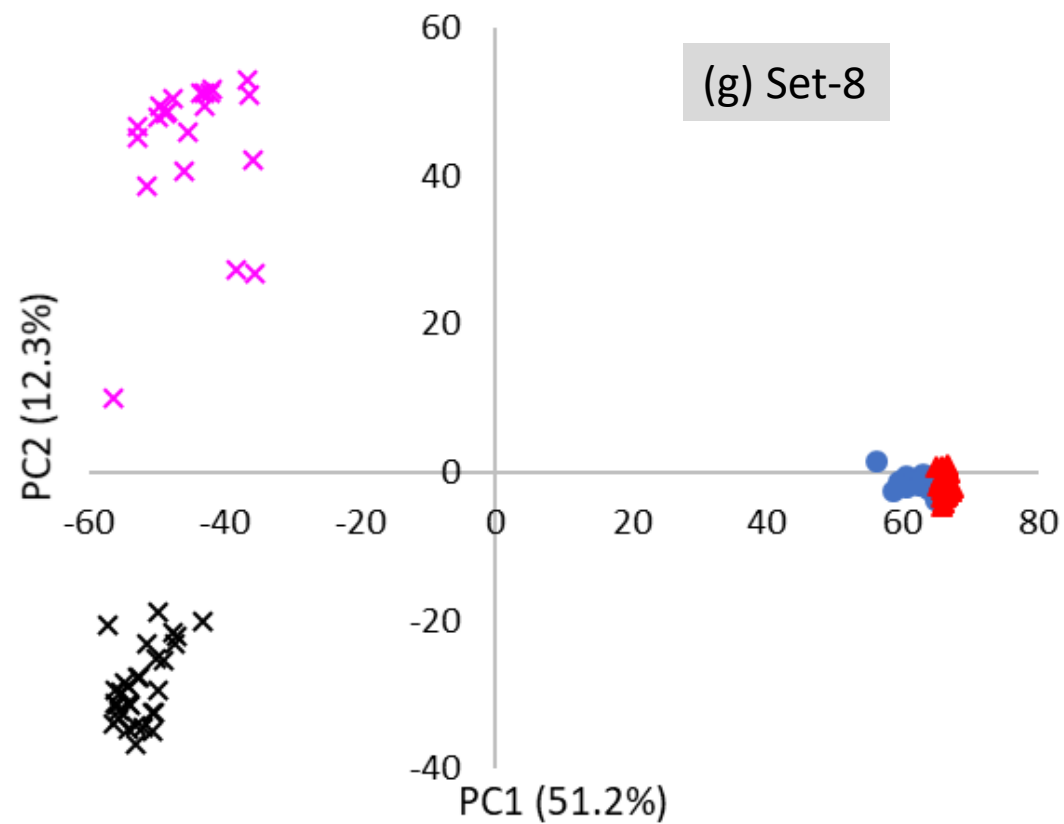




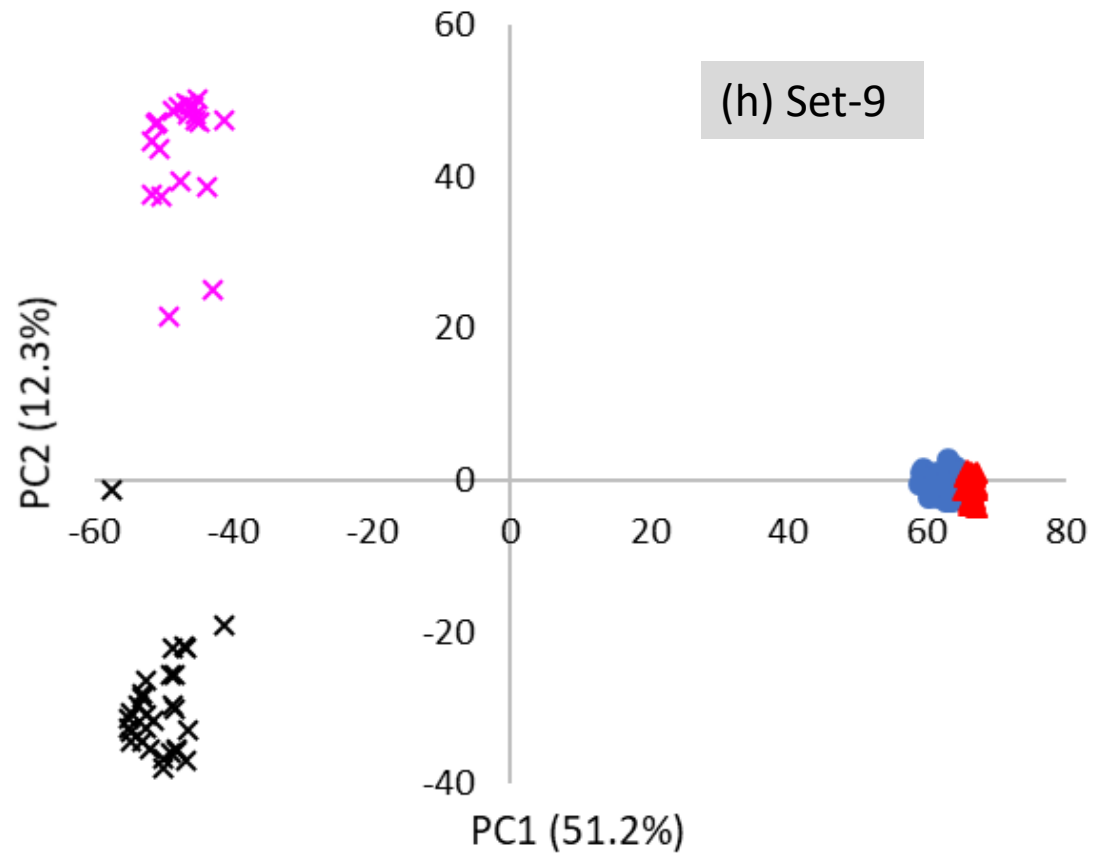




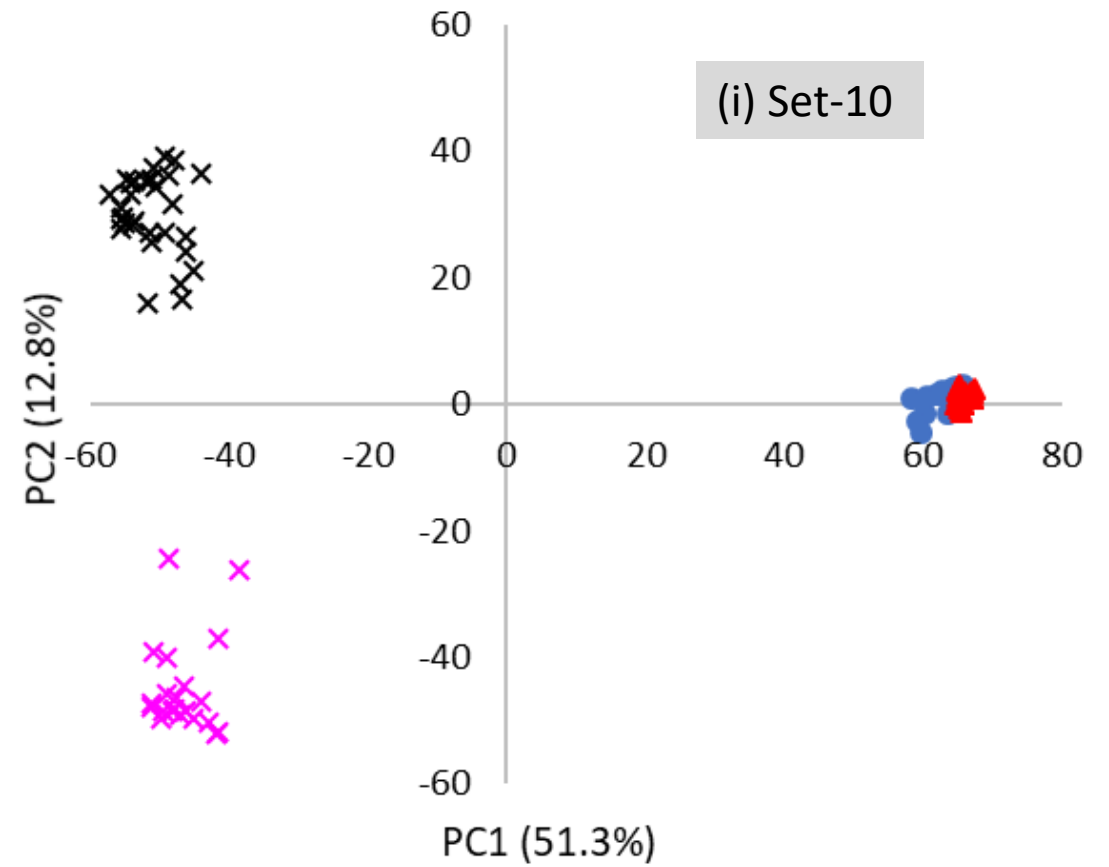
● Barthii ▲ Glaberrima × Lowland-sativa × Upland-sativa



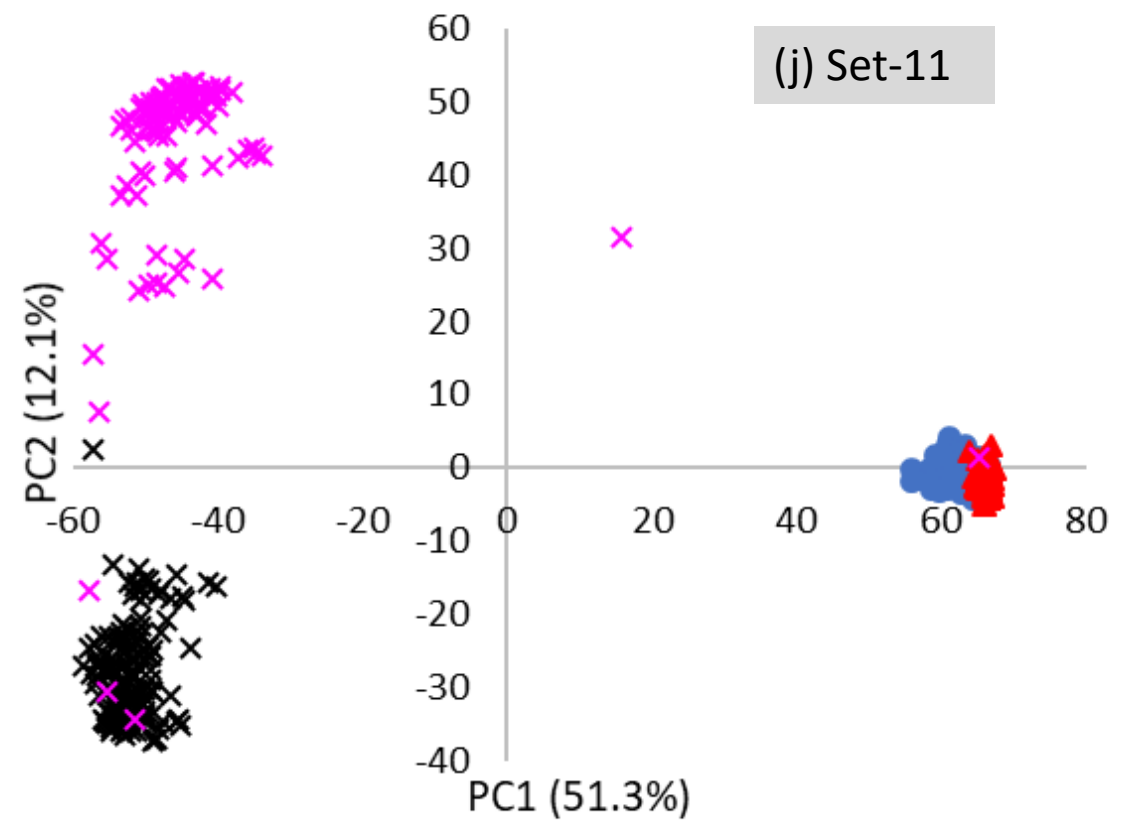
● Barthii ▲ Glaberrima × Lowland-sativa × Upland-sativa



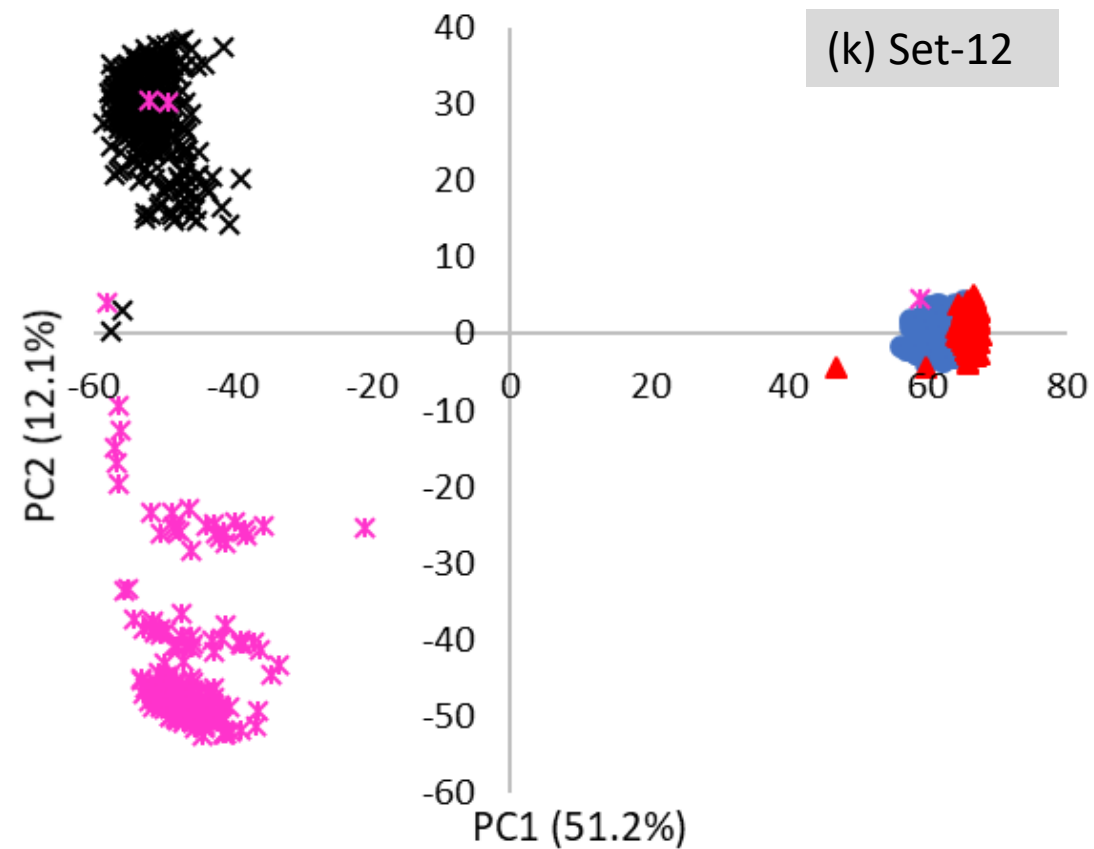
● Barthii ▲ Glaberrima × Lowland-sativa × Upland-sativa



● Barthii ▲ Glaberrima × Lowland-sativa × Upland-sativa



● Barthii ▲ Glaberrima × Lowland O. sativa × Upland O. sativa



● Barthii ▲ Glaberrima × Lowland O. sativa × Upland O. sativa

