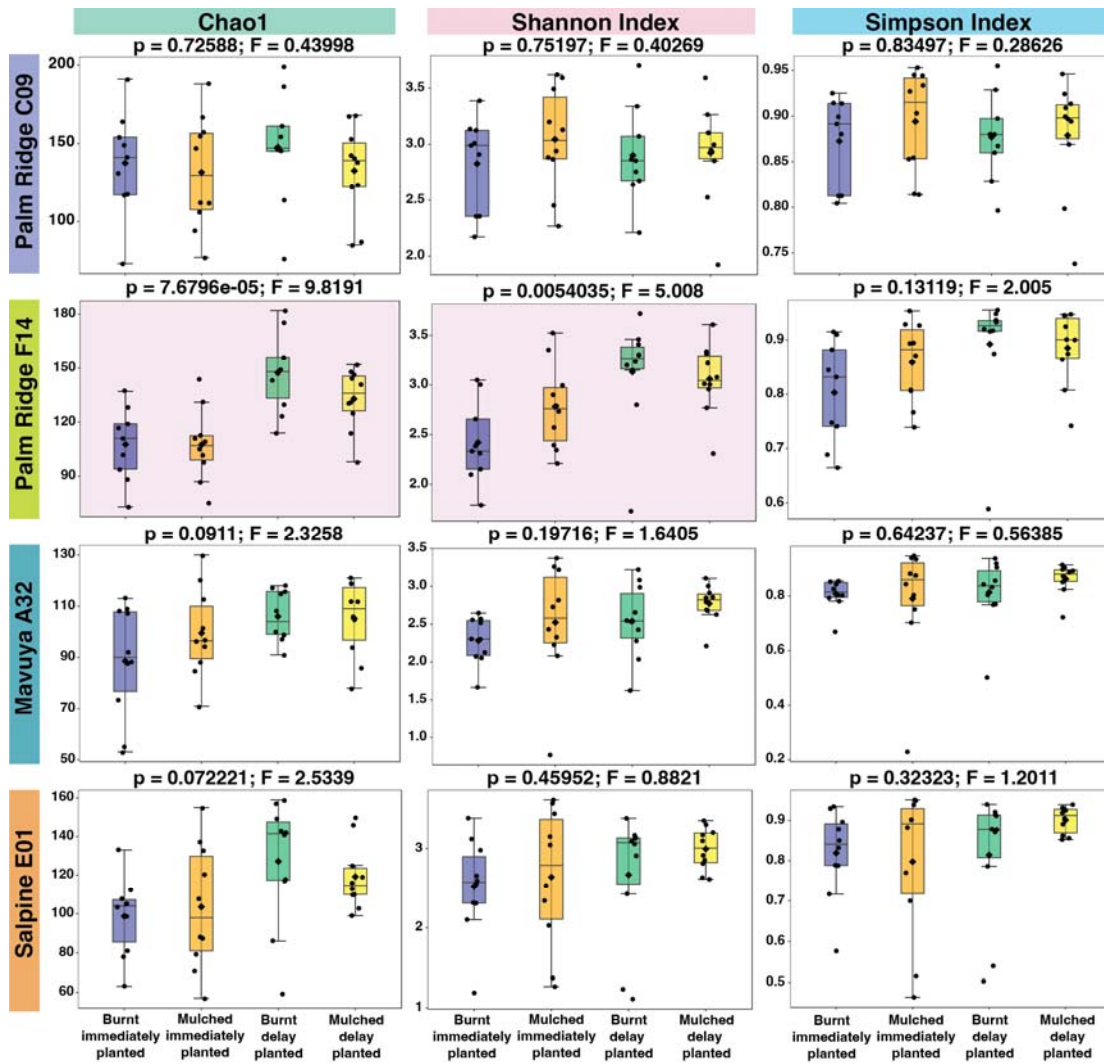
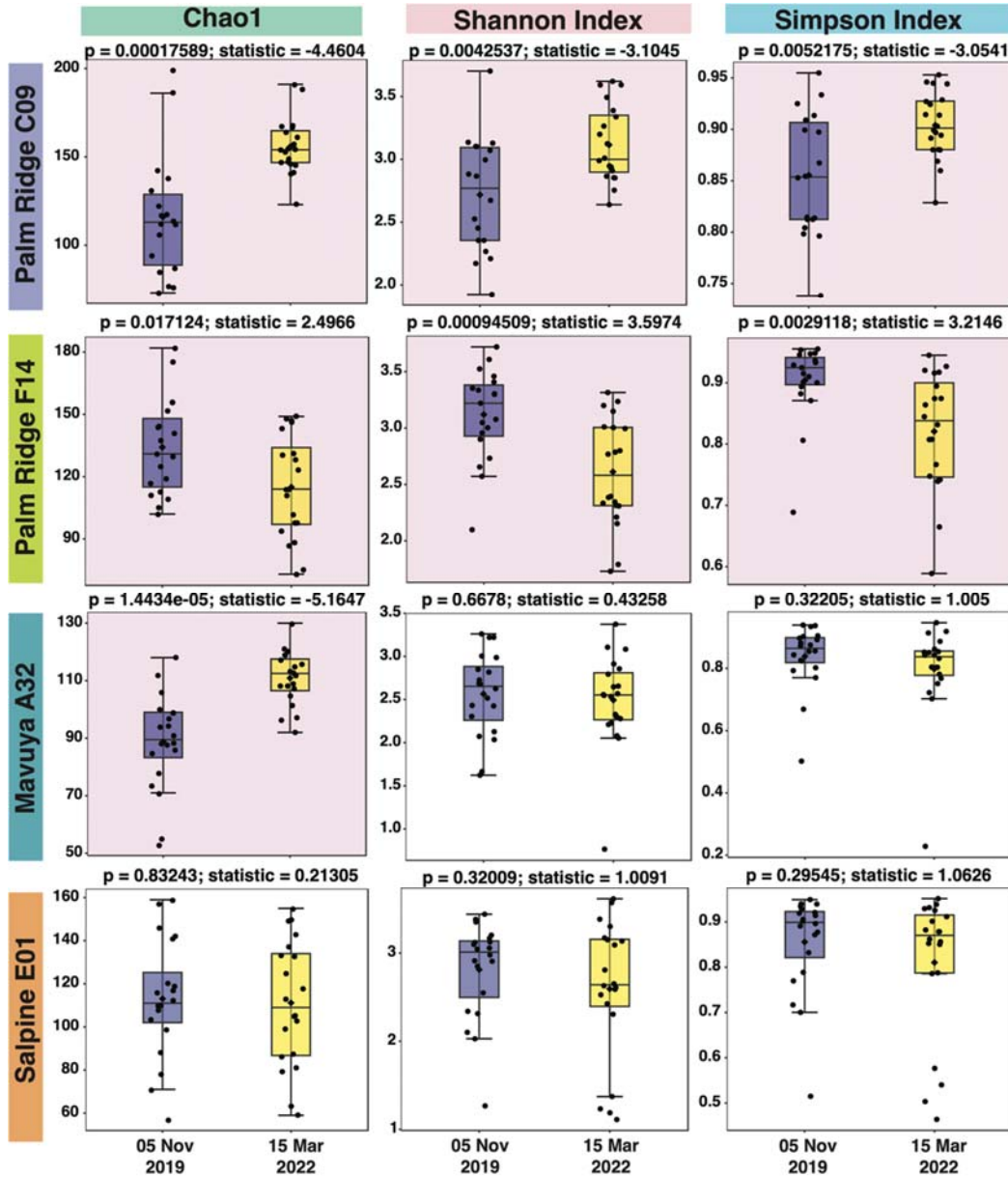


**Fig. S1.** Analysis of soil fungal communities across four sampling sites. Bar plots showing (A) species richness (Chao1), (B) Shannon Index, and (C) Simpson Index. (D) Principal Coordinates Analysis (PCoA) of soil fungal community composition associated with four soil sampling sites.



**Fig. S2.** Bar plots illustrate the species richness (Chao1), Shannon, and Simpson indices corresponding to various treatments across different sampling sites. The plots highlighted in pink are statistically significant ( $p \leq 0.05$ ).



**Fig. S3.** Bar plots illustrate the species richness (Chao1), Shannon, and Simpson indices corresponding to two different soil sampling time points across different sampling sites. The plots highlighted in pink are statistically significant ( $p \leq 0.05$ ).