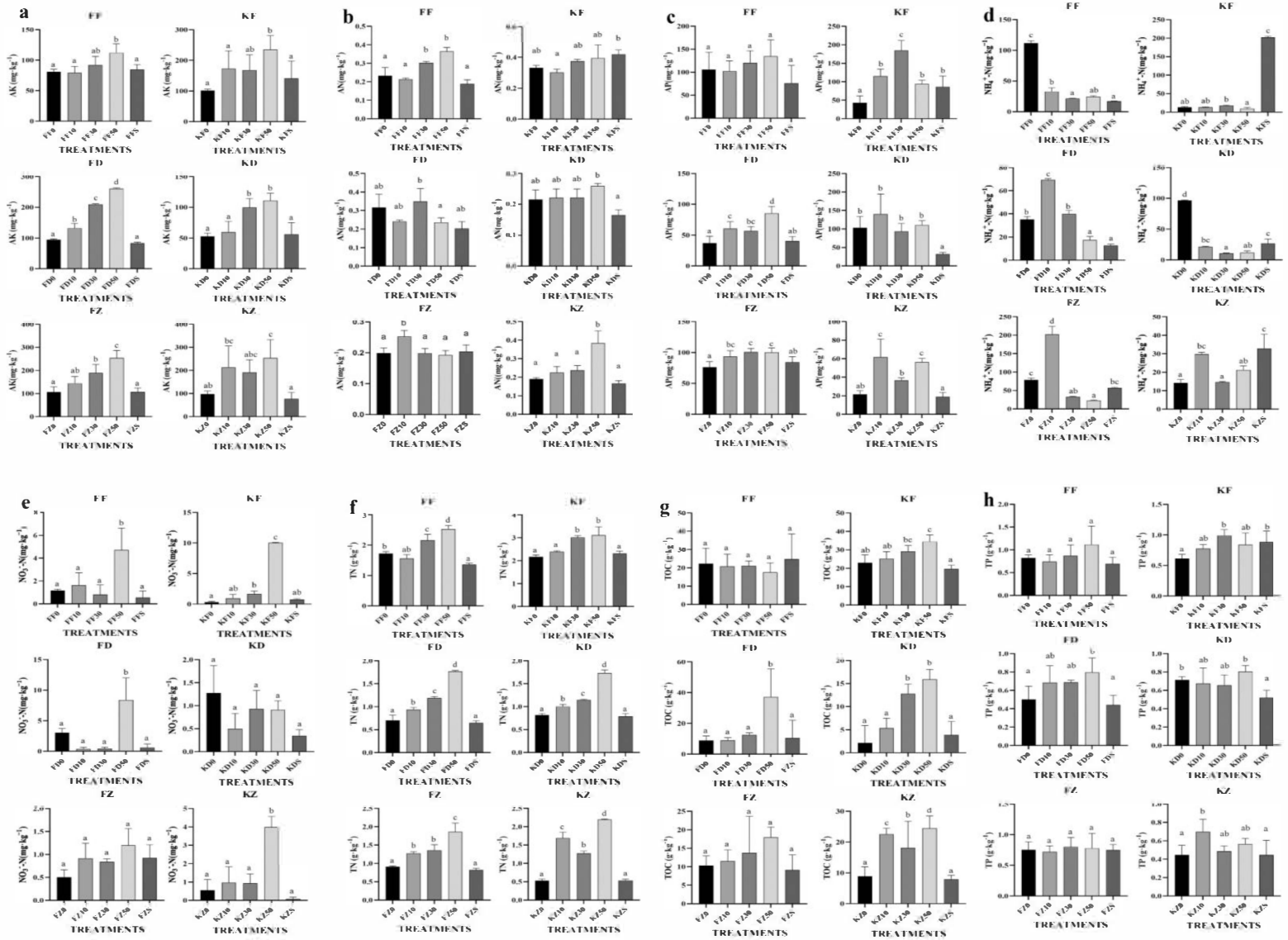
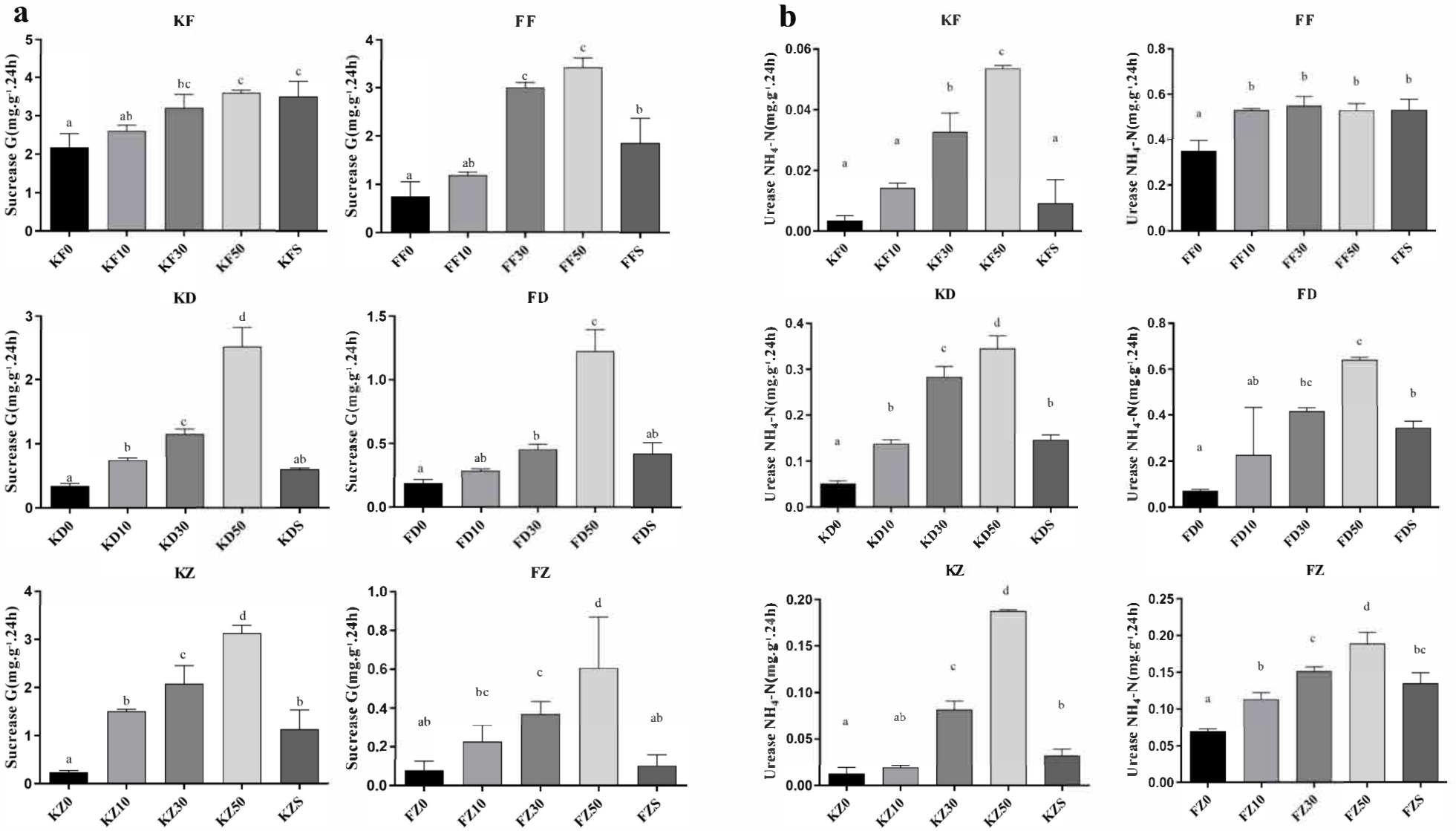
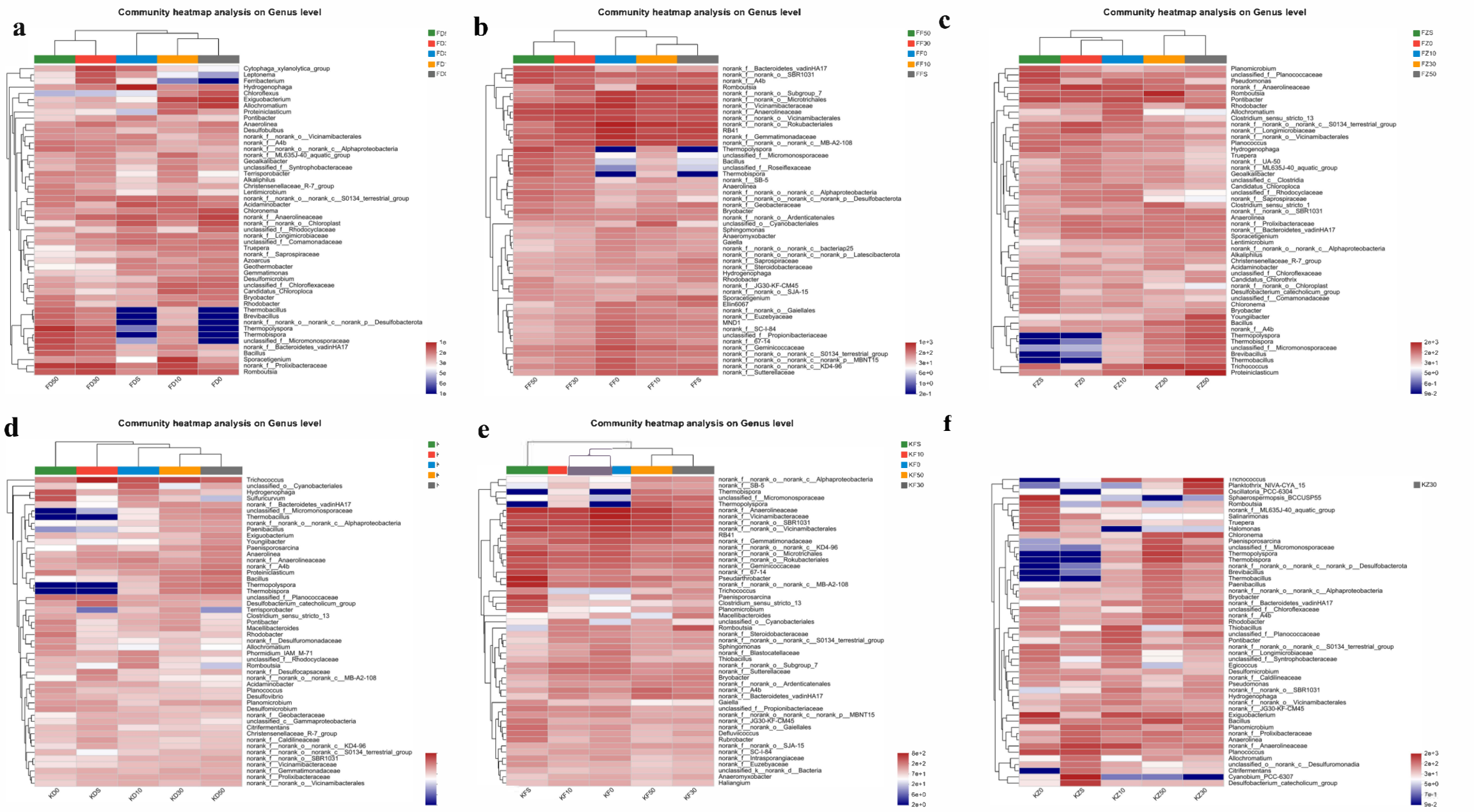


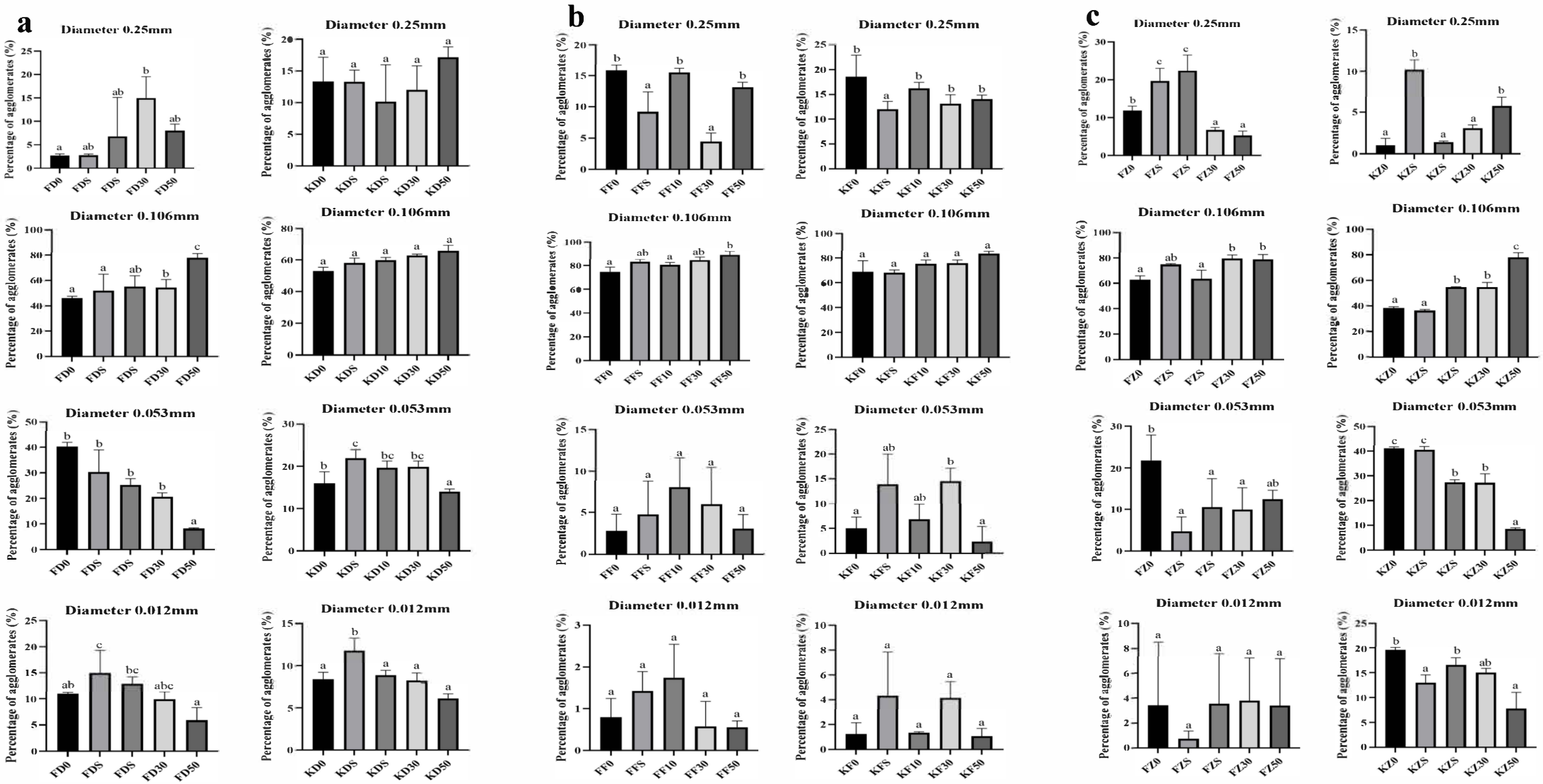
Supplementary Figure S1. Effects of CSC treatments on soil physiochemical properties at tillering stage of rice. a, AK; b, NH4+-N; c, AN; d, AP; e, NO3--N; f, TN; g, TOC; I, TP; AK, available potassium; TP, total phosphorus; NH4+-N, ammonium nitrogen; AN, available nitrogen; NO3--N, nitrate nitrogen; AP, available phosphorus; TN, total nitrogen; TOC, Total organic carbon. Values are means ± standard deviation (n = 3). Different lowercase letters indicate significances ($P < 0.05$).



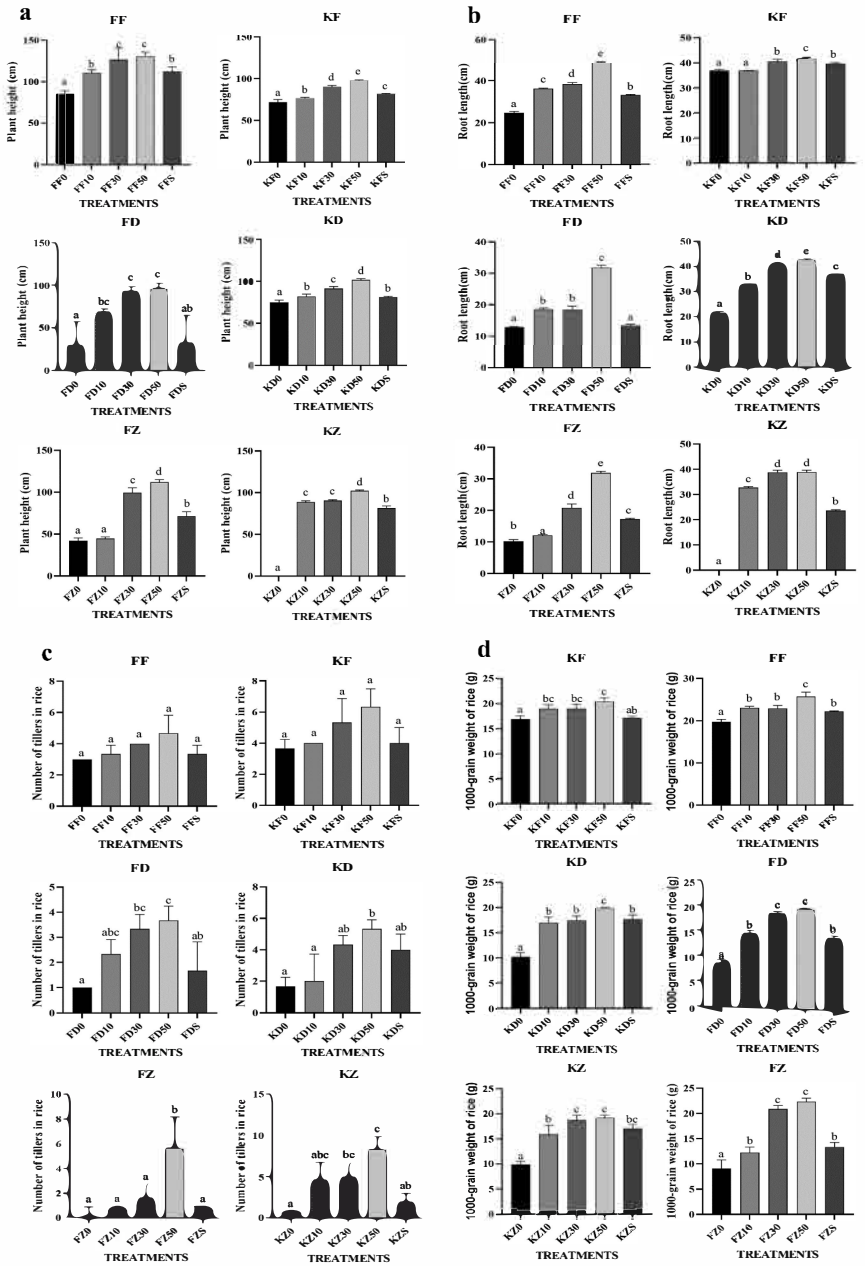
Supplementary Figure S2. Changes of enzyme activities in different treatments of rice. a, Surcease; b, Urease. Values are means ± standard deviation (n = 3). Different lowercase letters indicate significances ($P < 0.05$).



Supplementary Figure S3. Comparison of differences between different treatments of saline soils for bacteria at the genus level. a, FD、KD; b, FF、KF; c, FZ、KZ.



Supplementary Figure S4. Comparison of the proportion of soil particles with different sizes. a, FD, KD; b, FF, KF; c, FZ, KZ. Values are means ± standard deviation (n = 3). Different lowercase letters indicate significances ($P < 0.05$).



Supplementary Figure S5. Comparison of biomass. Root length, plant height, tiller number and 1000-grain weight of rice are compared. a, plant height; b, root length ; c, tiller number; d, 1000-grain weight. Values are means ± standard deviation (n = 3). Different lowercase letters indicate significances ($P < 0.05$).