Figure legend

Supplementary Fig. 1 Bacteria community structure of the inoculated phytoplankton (coccolithophore: *E. huxleyi*; diatom: *P. tricornutum* and *T. weissflogii*) culture at phylum (a), class (b), order(c), family (d), genus (d), species (d) level.

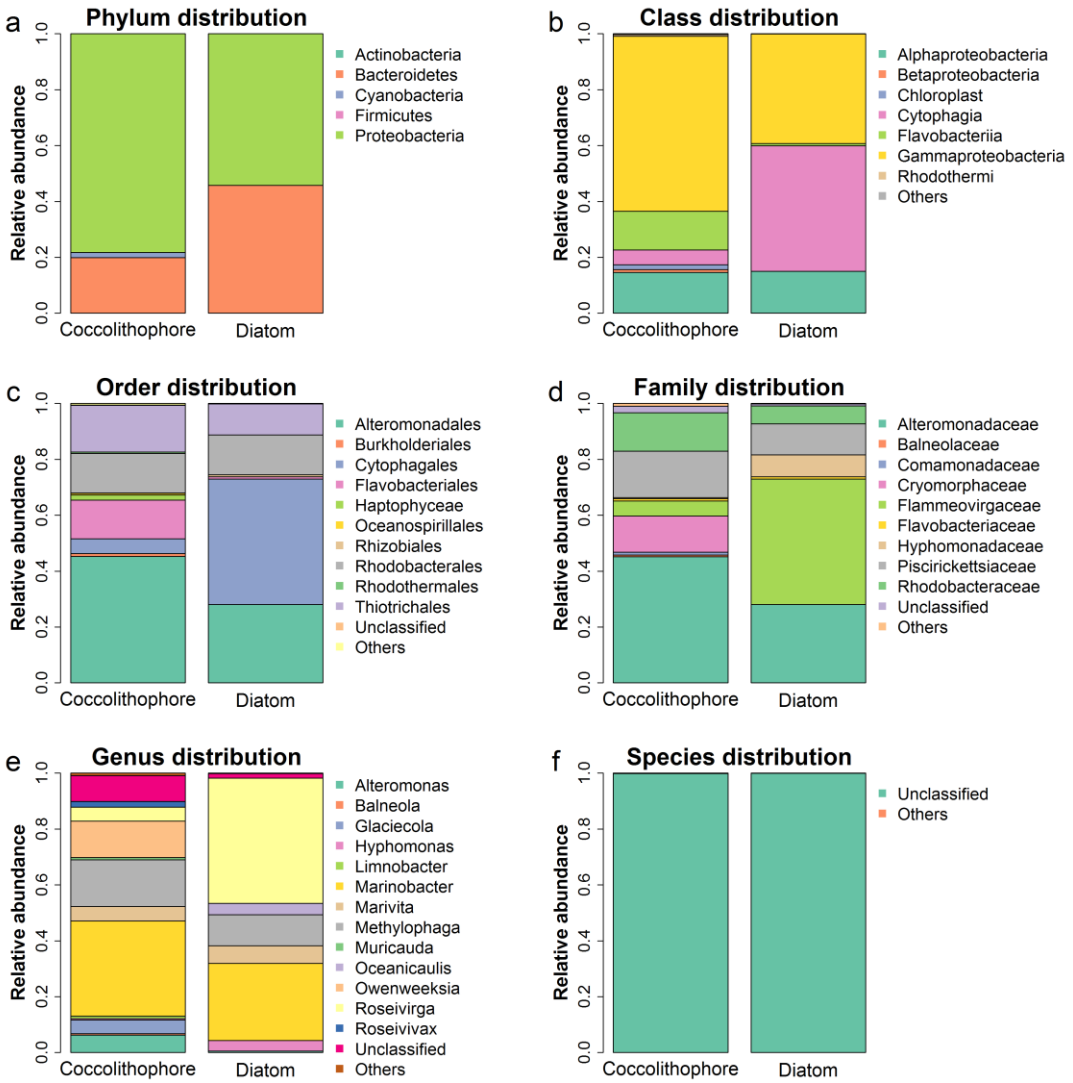
Supplementary Fig. 2 The phylogenetic tree of OTUs from all samples.

Supplementary Fig. 3 Composition of the top 10 taxa at the (a) class, (b) order, (c) family or (d) genus level for all samples.

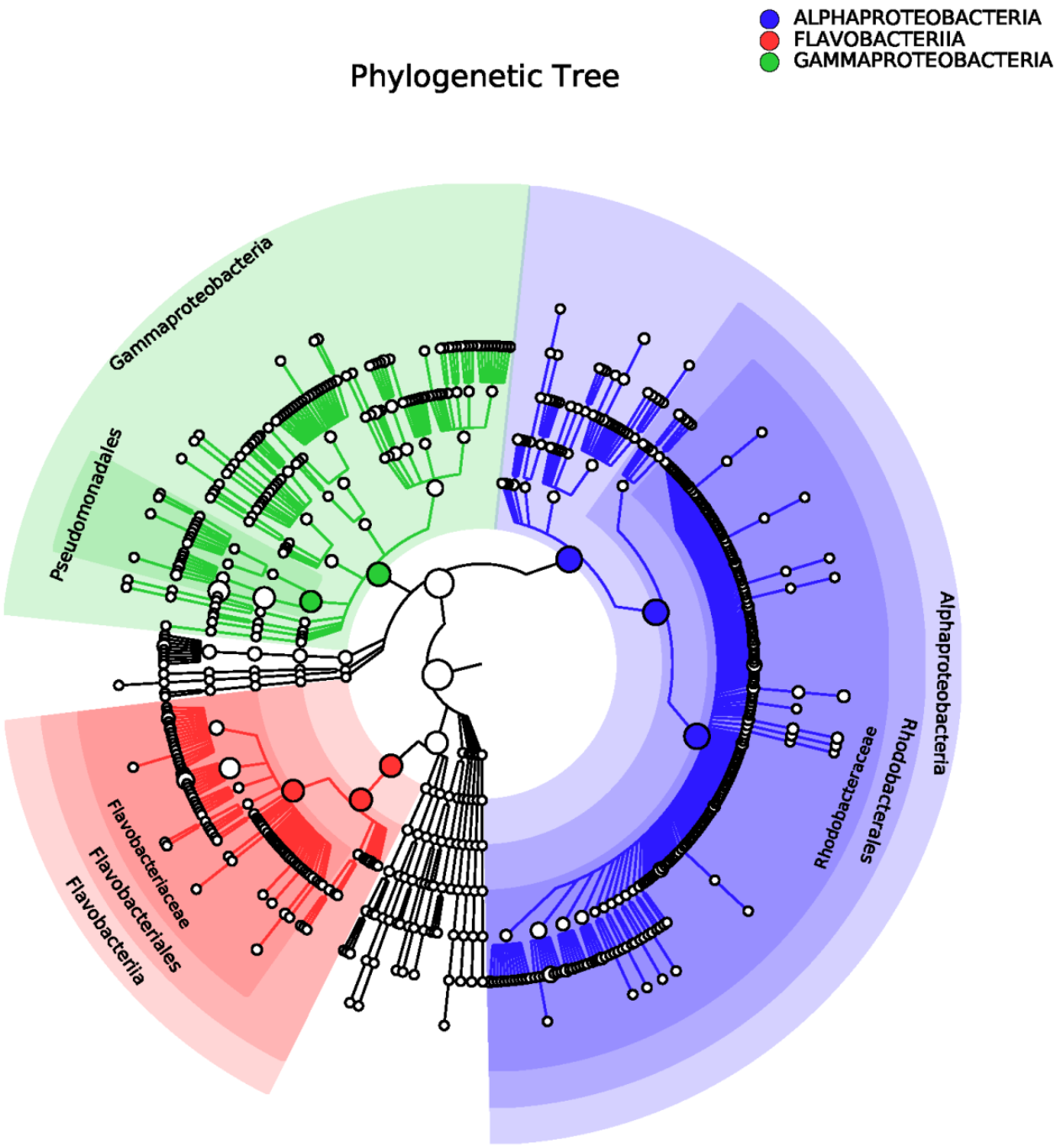
Supplementary Fig. 4 Rarefaction curves of samples from HC-2, HC-4, HC-7， LC-1, LC-6 and LC-8 collected at various time points using different estimator methods including Observed species (a), Shannon index (b), Chao index (c), Simpson index (d).

Supplementary Fig. 5 Bacterioplankton community diversity variation of HC-2, HC-4, HC-7, LC-1, LC-6 and LC-8 over time using different estimator methods including Observed species (a), Shannon index (b), Chao index (c), Simpson index (d).

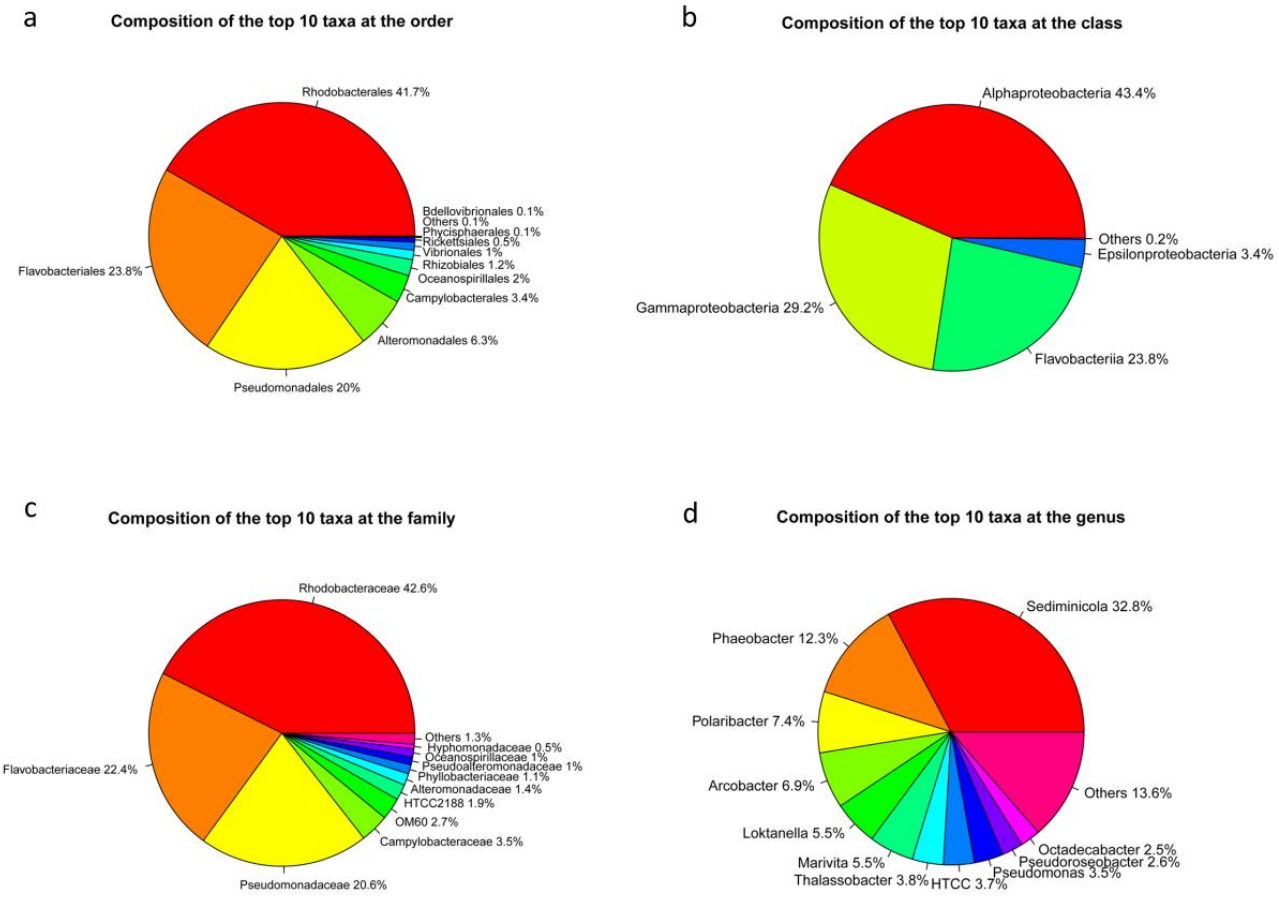
Supplementary Fig. 6 Principle component analysis (PCA) of bacterioplankton community of all samples collected at different time points.



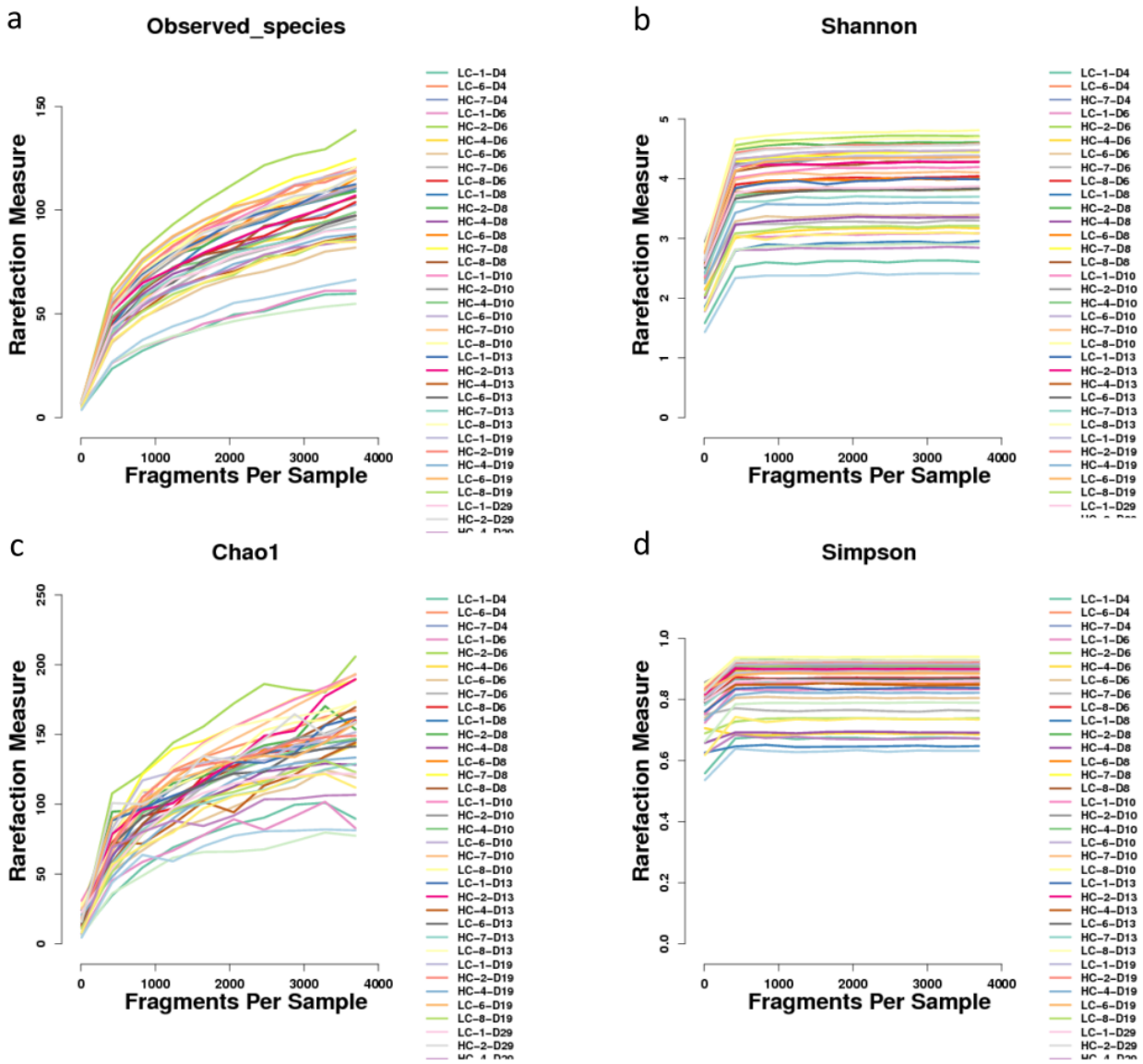
Supplementary Figure. 1



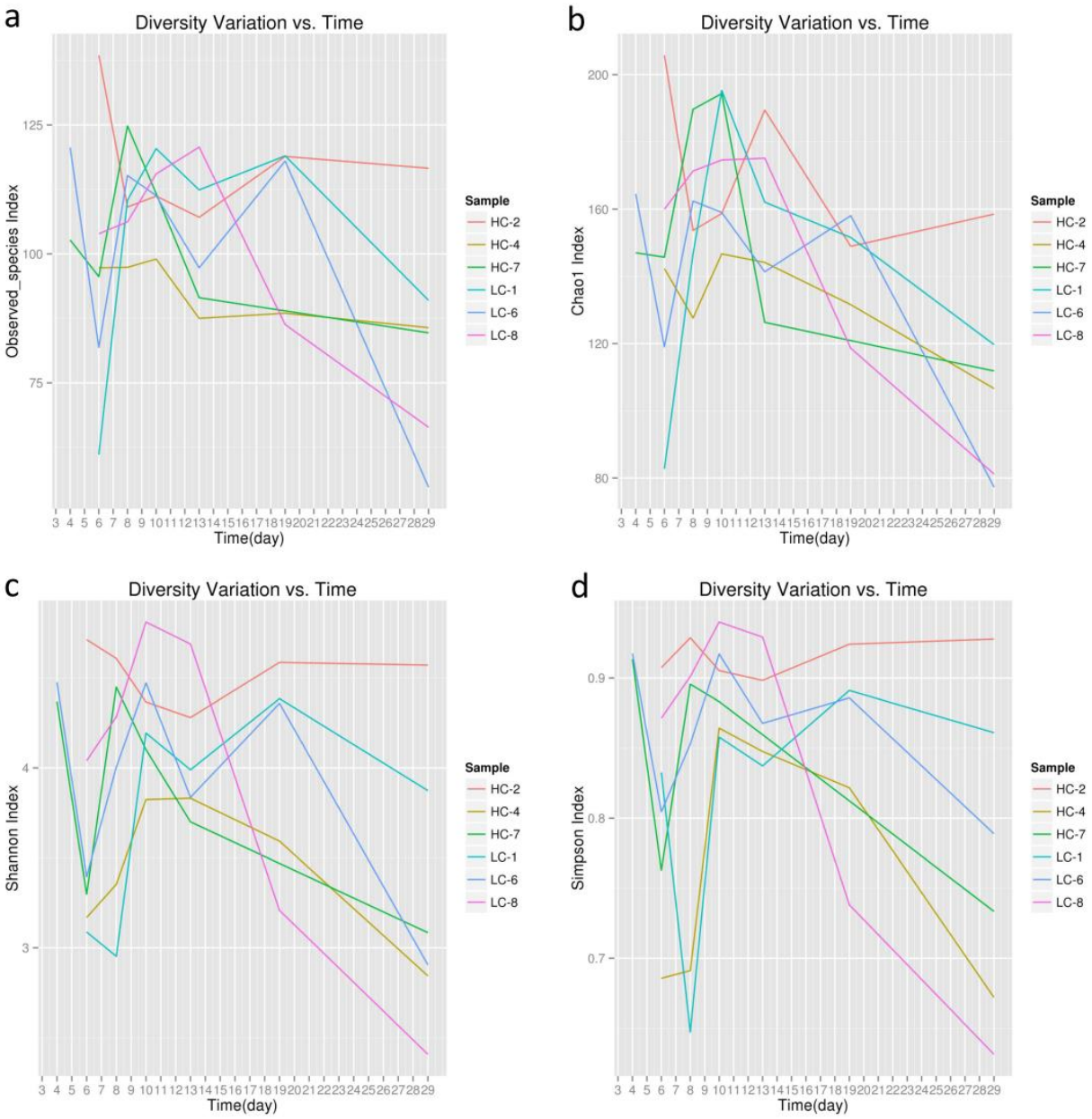
Supplementary Figure. 2



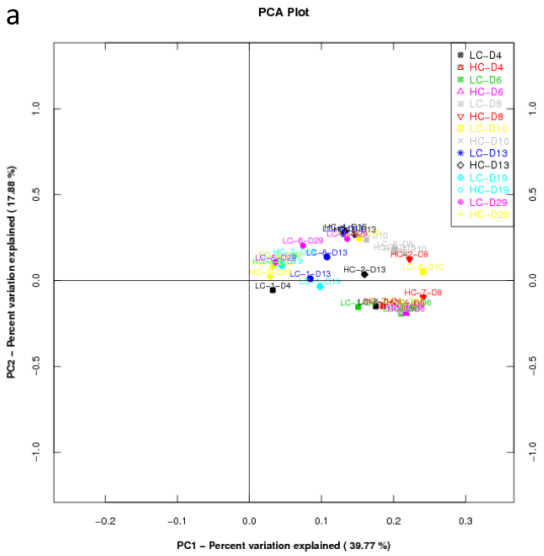
Supplementary Figure. 3

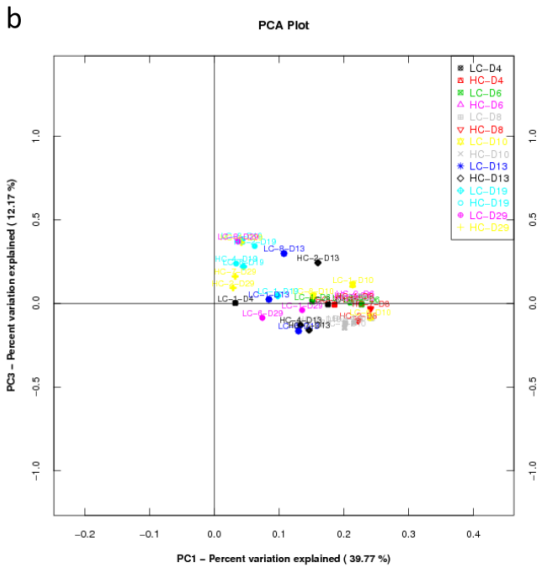


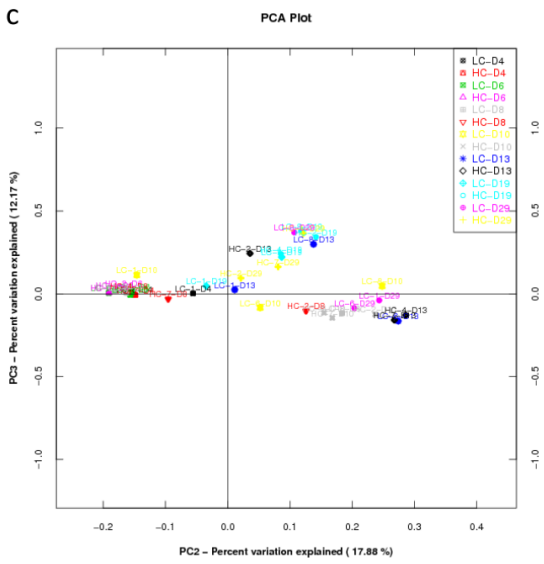
Supplementary Figure. 4



Supplementary Figure. 5







Supplementary Figure. 6