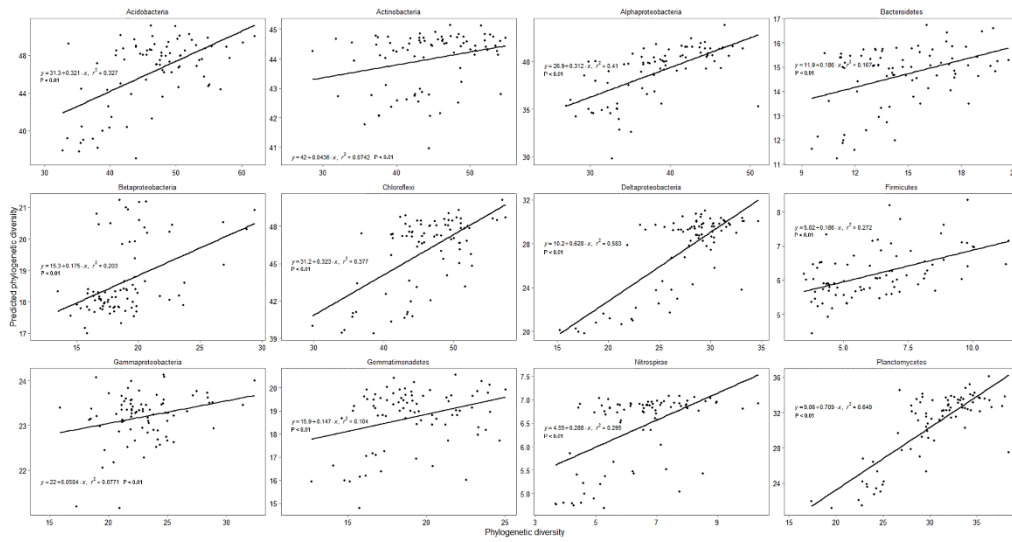


**Figure S1** Sampling locations in North China Plain (A) and quadrat sets (B). DEM: Digital Elevation Model.



**Figure S2.** Cross validation between predicted PD values of selected bacterial phyla and their actual relative abundance.