

S2 Fig. Correlation matrix of  $\beta$ , p, q,  $\delta$ , and  $\epsilon$  in Stage 2 to Stage 7. Green means (almost) not statistically correlated while yellow/purple represents positively/negatively correlated. The correlation matrices are similar in theses stages, i.e., there is always correlation between  $\beta$ ,  $\epsilon$ ,  $\delta$  while there is no correlation between p, q and the other parameters.