



**Figure S2. Subnetworks consist of reactions with correlated flux variability.** We performed vertex correlation analysis on the four vertices (Figure 2B) of our metabolic toy network without reversible-reaction splitting. This figure shows the Pearson correlation coefficients. We can see that there are two subnetworks, {R6-R10} and {R12-R15}. Reactions within the same flux distribution (e.g. R6 and R7) are positively correlated and reactions between alternative flux distributions (e.g. R6 and R10) are negatively correlated.