

Supporting figures

Figure S1A Uncoupled gene pairs have higher network distances than flux coupled pairs (i.e. fully and directionally) in the metabolic network of *E. coli* (Wilcox robust one-way ANOVA, $p \approx 0$), but fully and directionally coupled gene pairs do not differ in terms of overall network distance (Wilcox robust one-way ANOVA, $p = 0.9$).

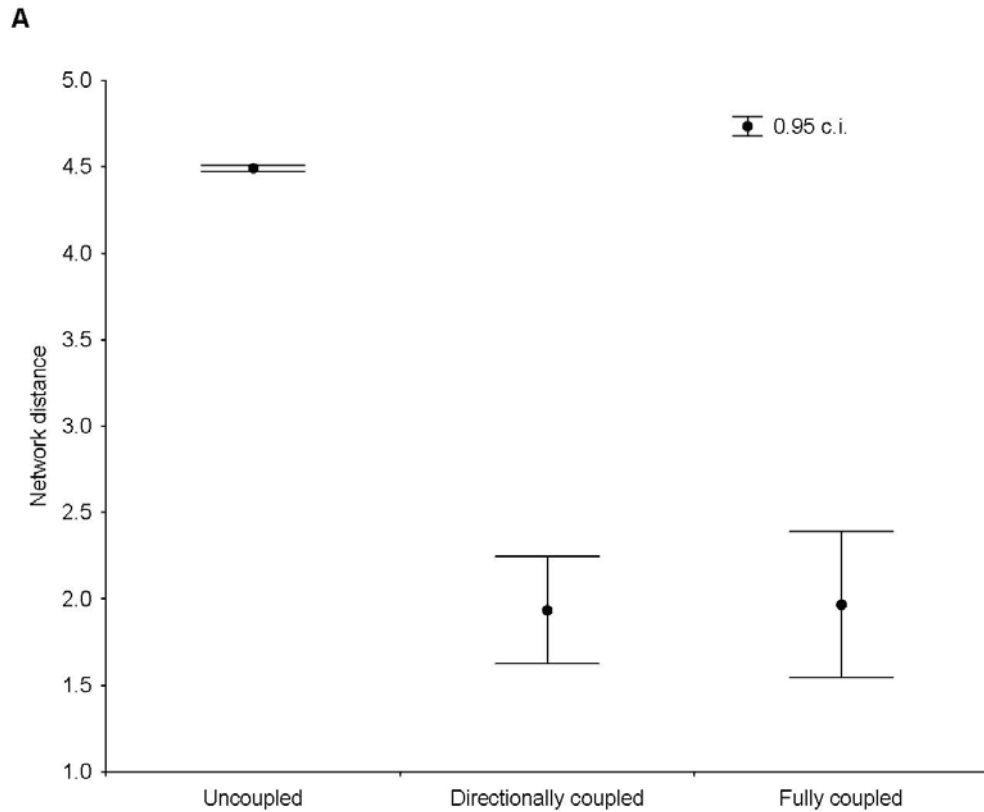


Figure S1B mRNA-level co-expression correlates with the type of flux coupling in the metabolic network of *E. coli* (Wilcox robust one-way ANOVA, $p < 10^{-14}$).

B

