

Figure 1

Figure 2

- Linear difference equation: $X_{t+1} = AX_t + BU_t$

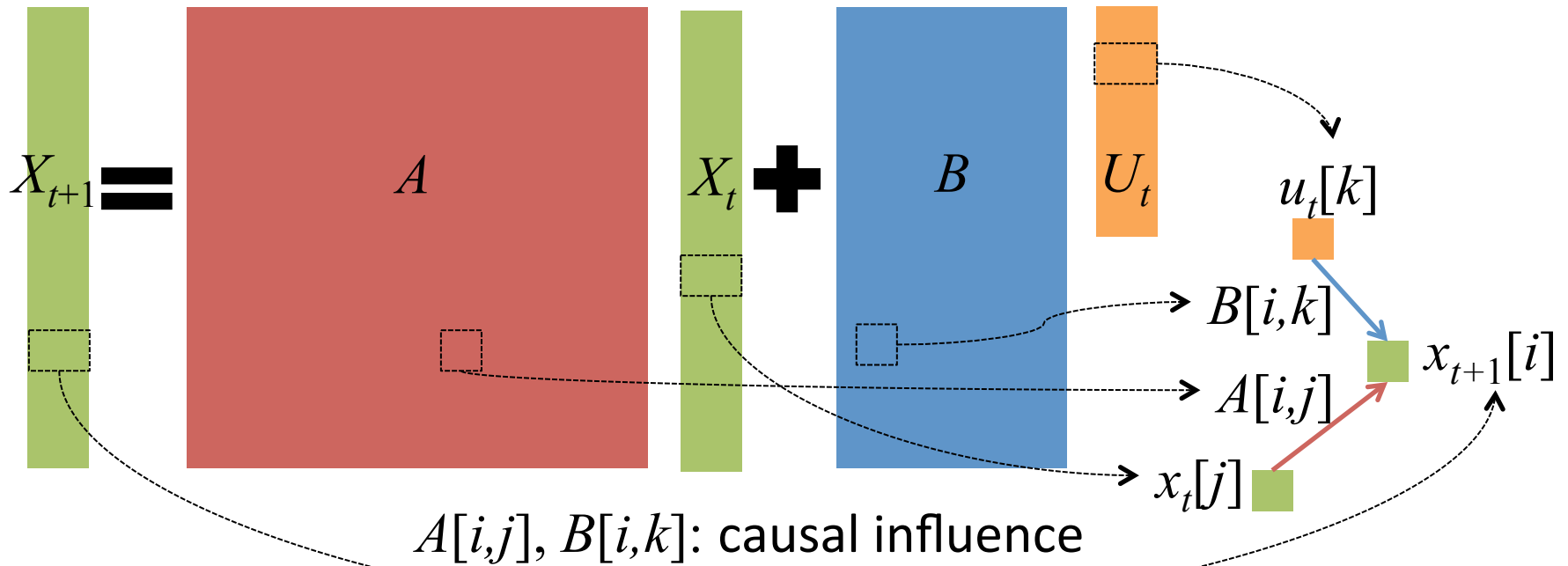
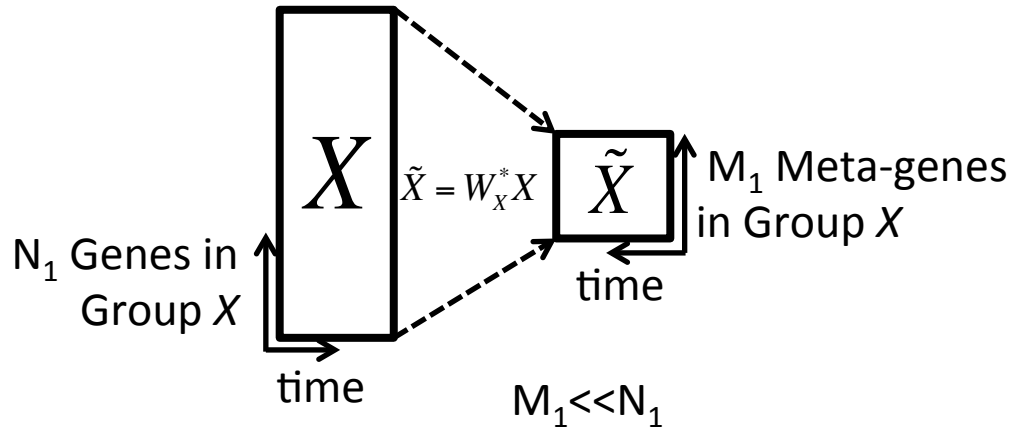
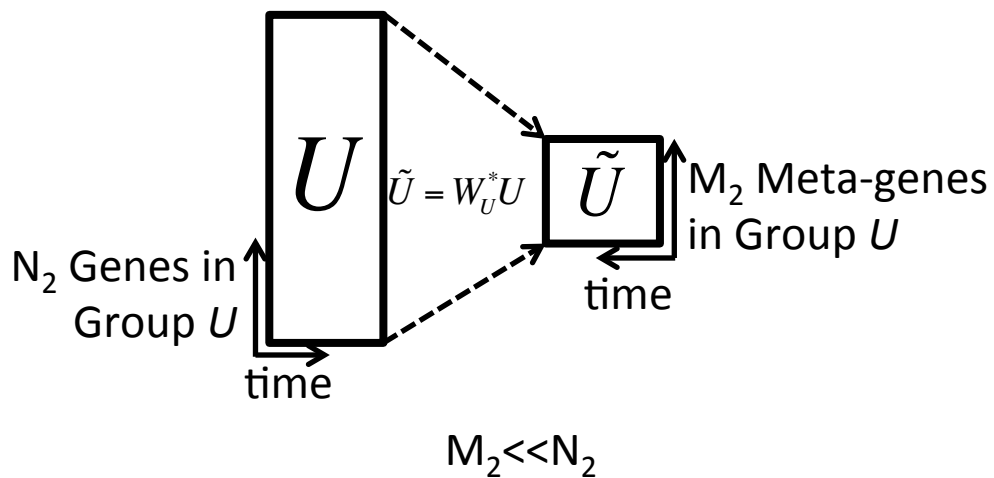


Figure 3



$$\tilde{X}_t = W_X^* X_t$$



$$\tilde{U}_t = W_U^* U_t$$

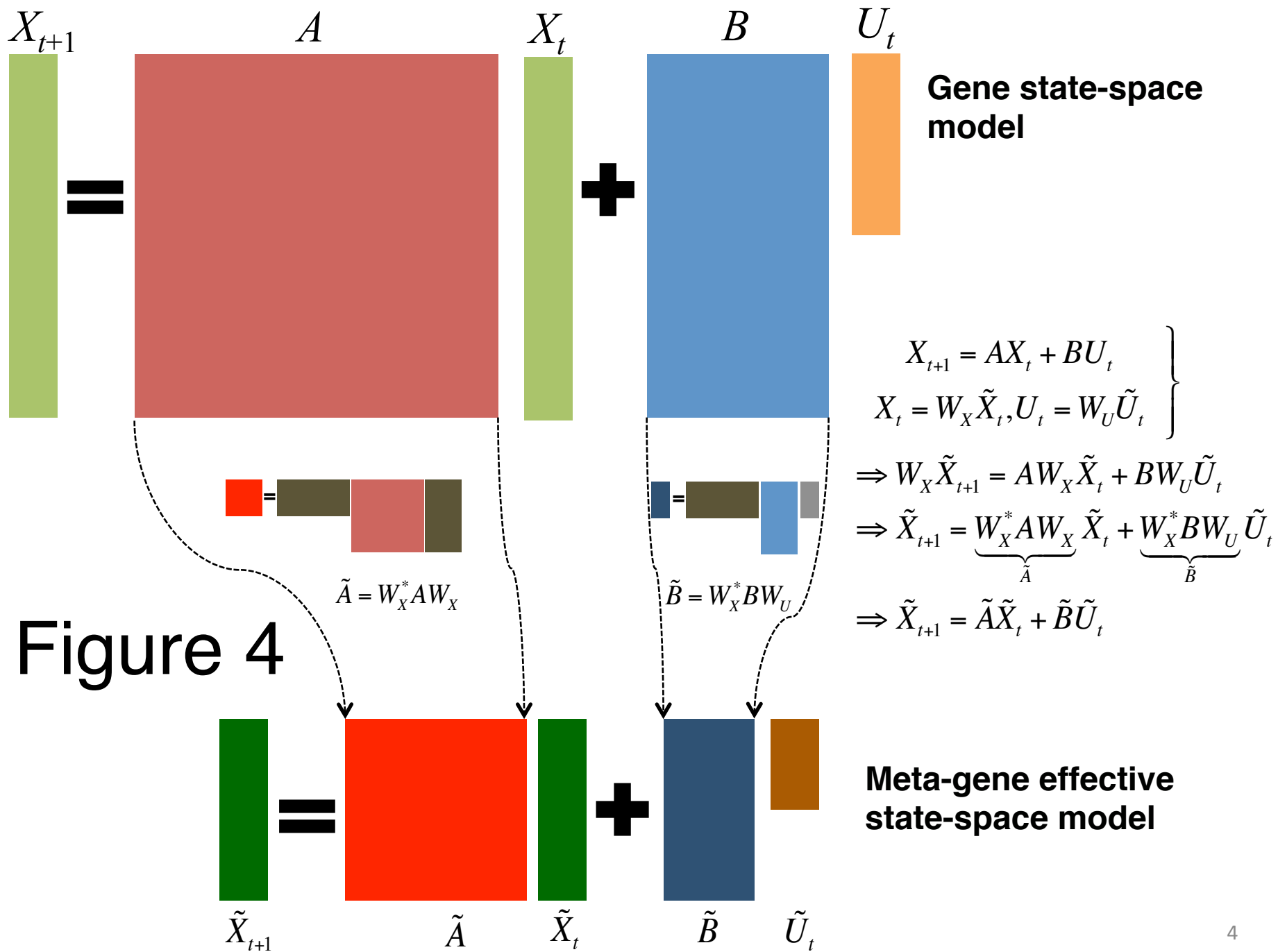


Figure 5

Worm Fly

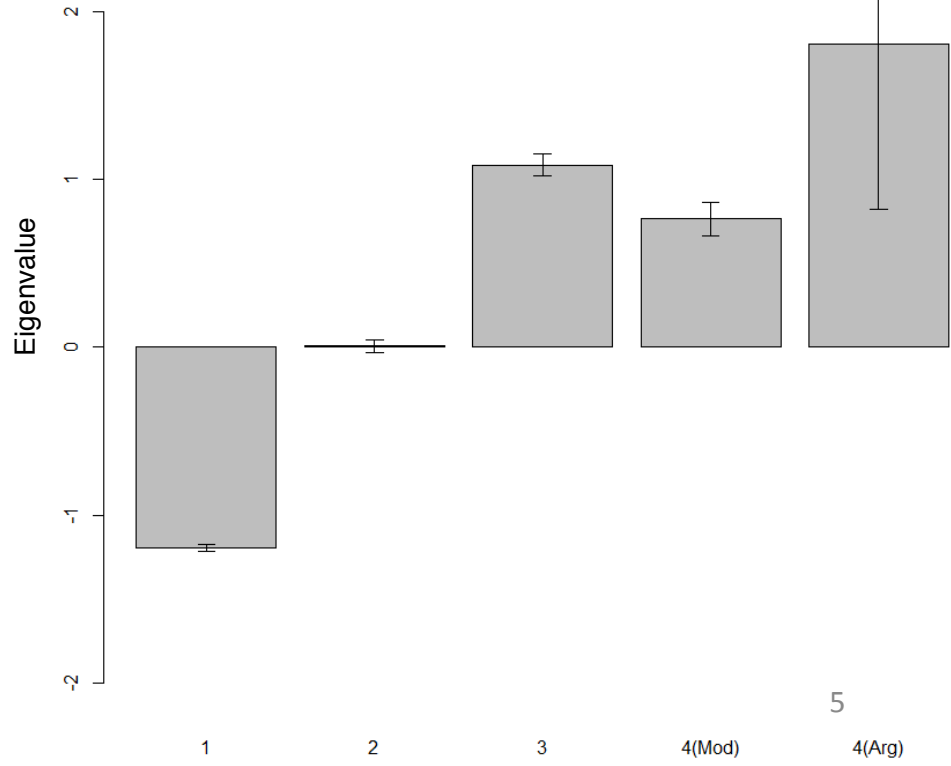
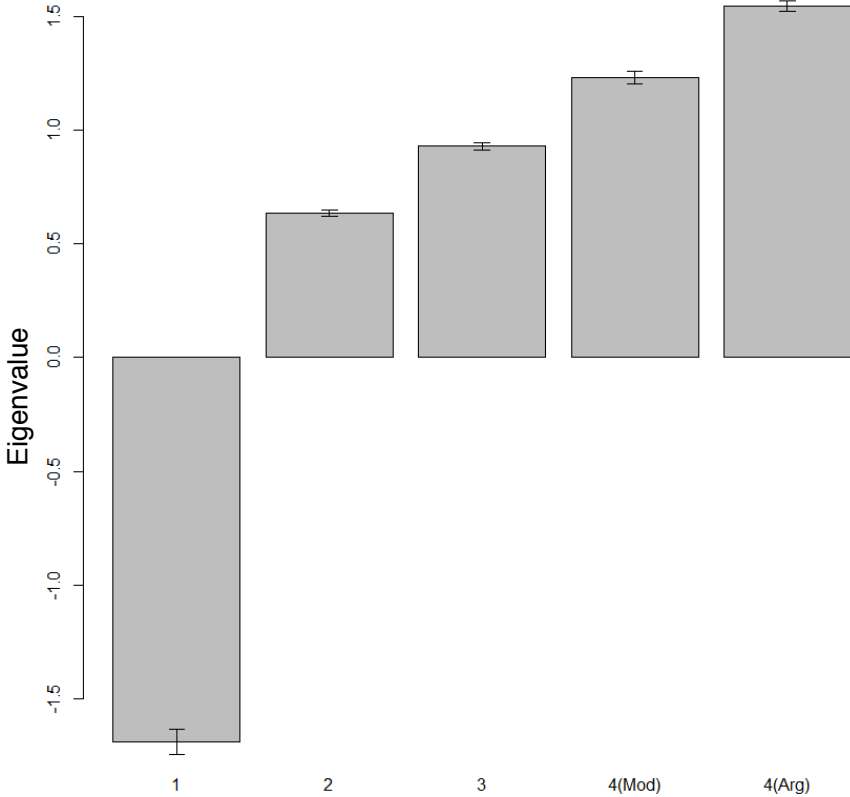
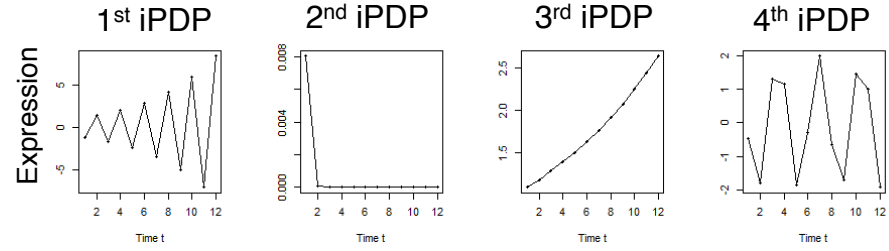
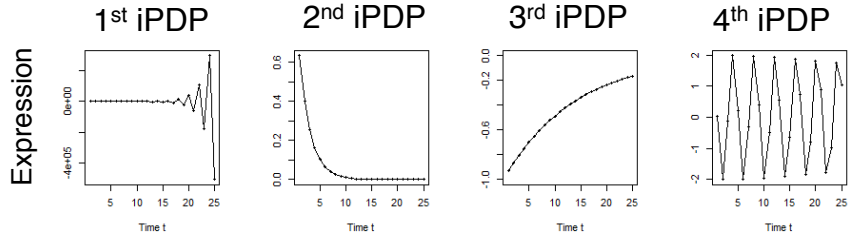
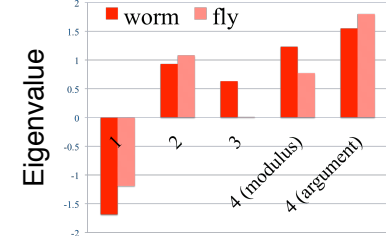


Figure S1

Worm Fly

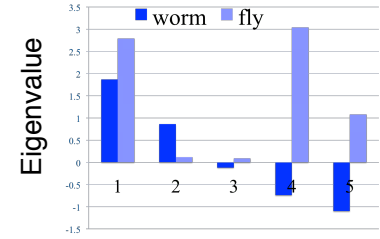
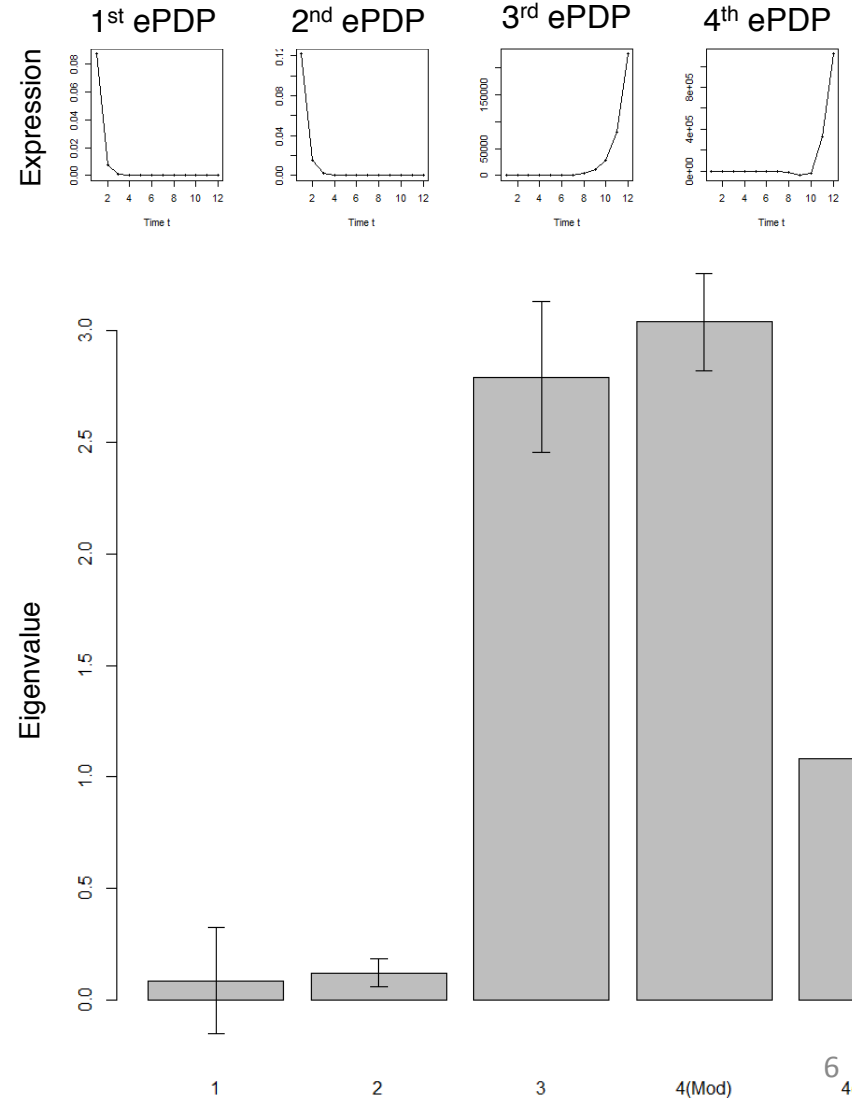
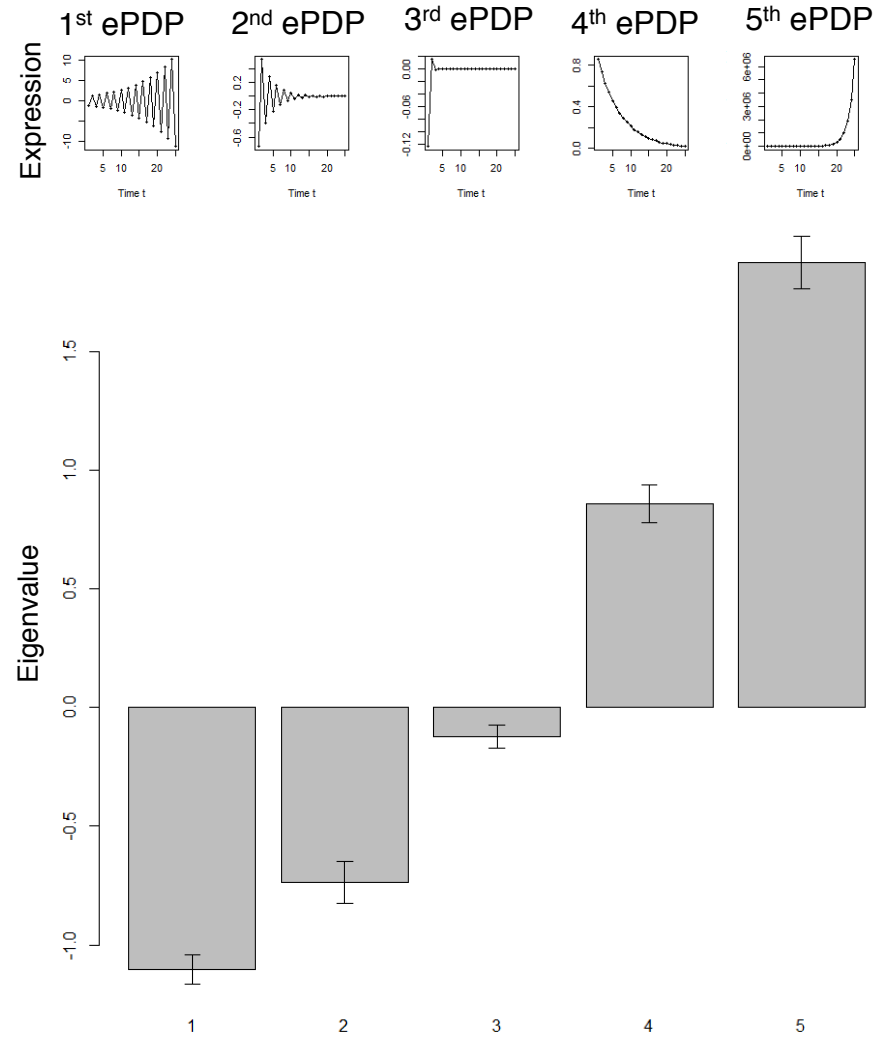


Figure 6

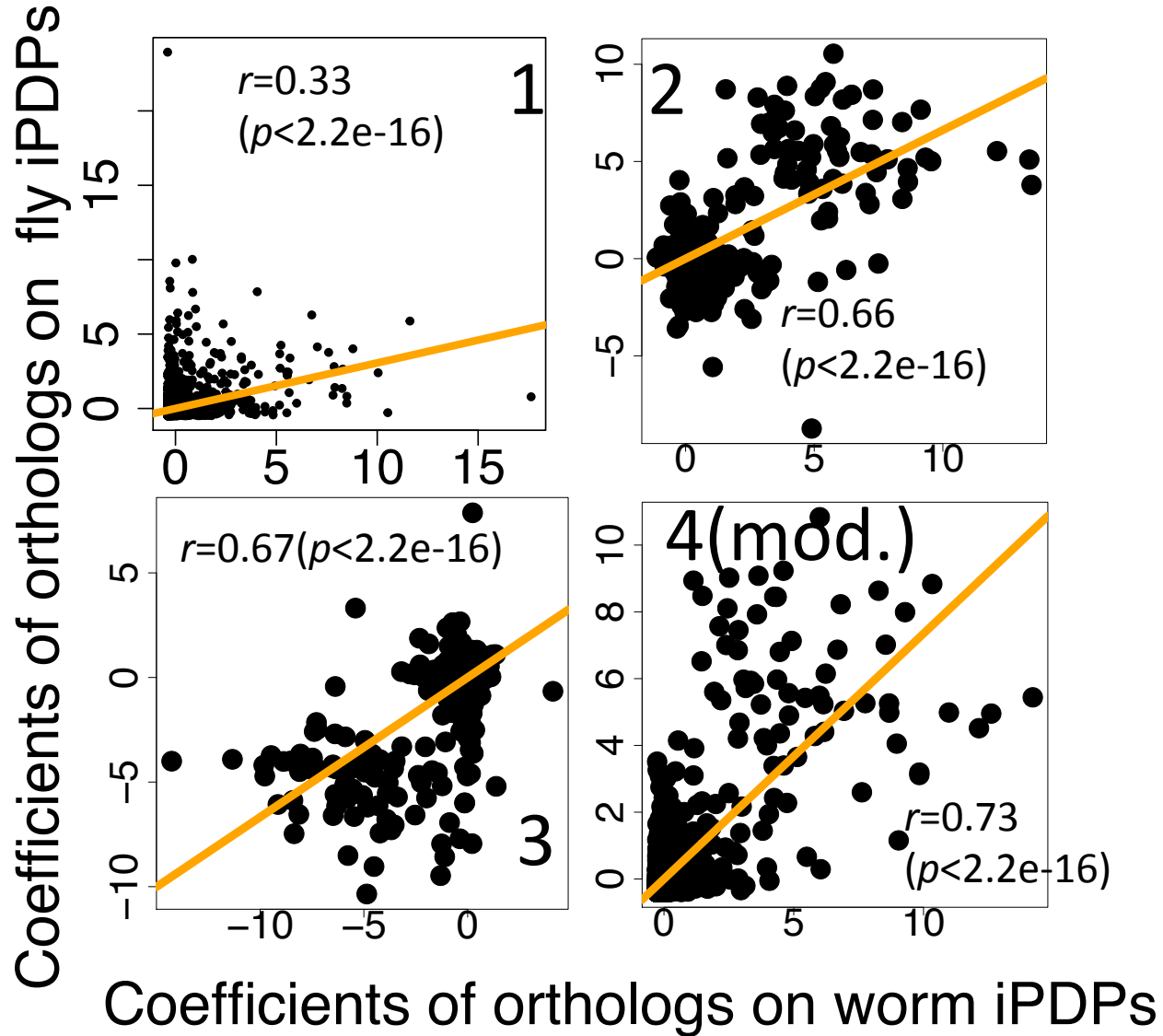


Figure 7A

Ribosomal genes: coefficients over conserved (iPDP) and specific (ePDP) meta-patterns

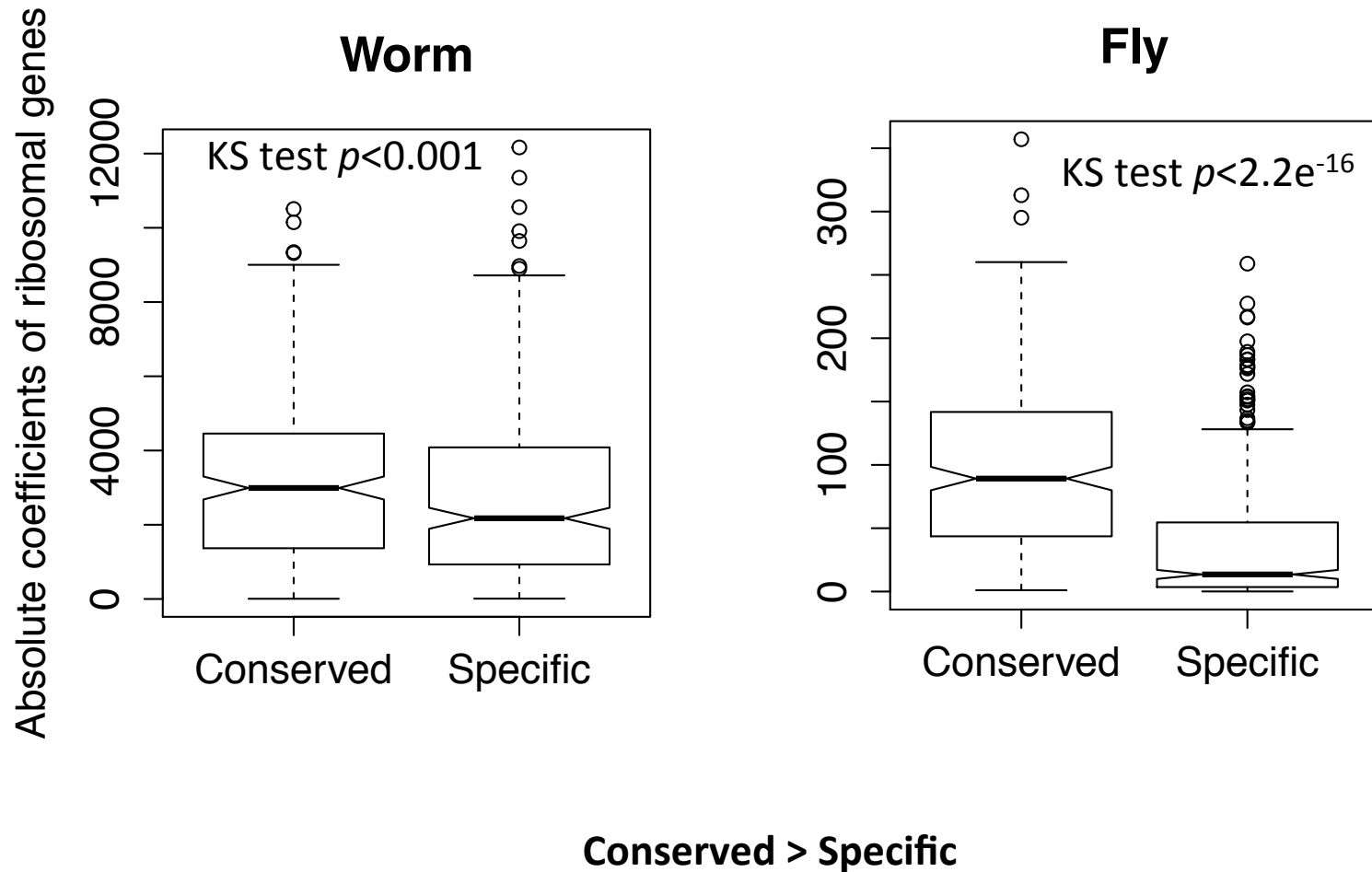


Figure 7B

Signaling genes: coefficients over conserved (iPDP) and specific (ePDP) meta-patterns

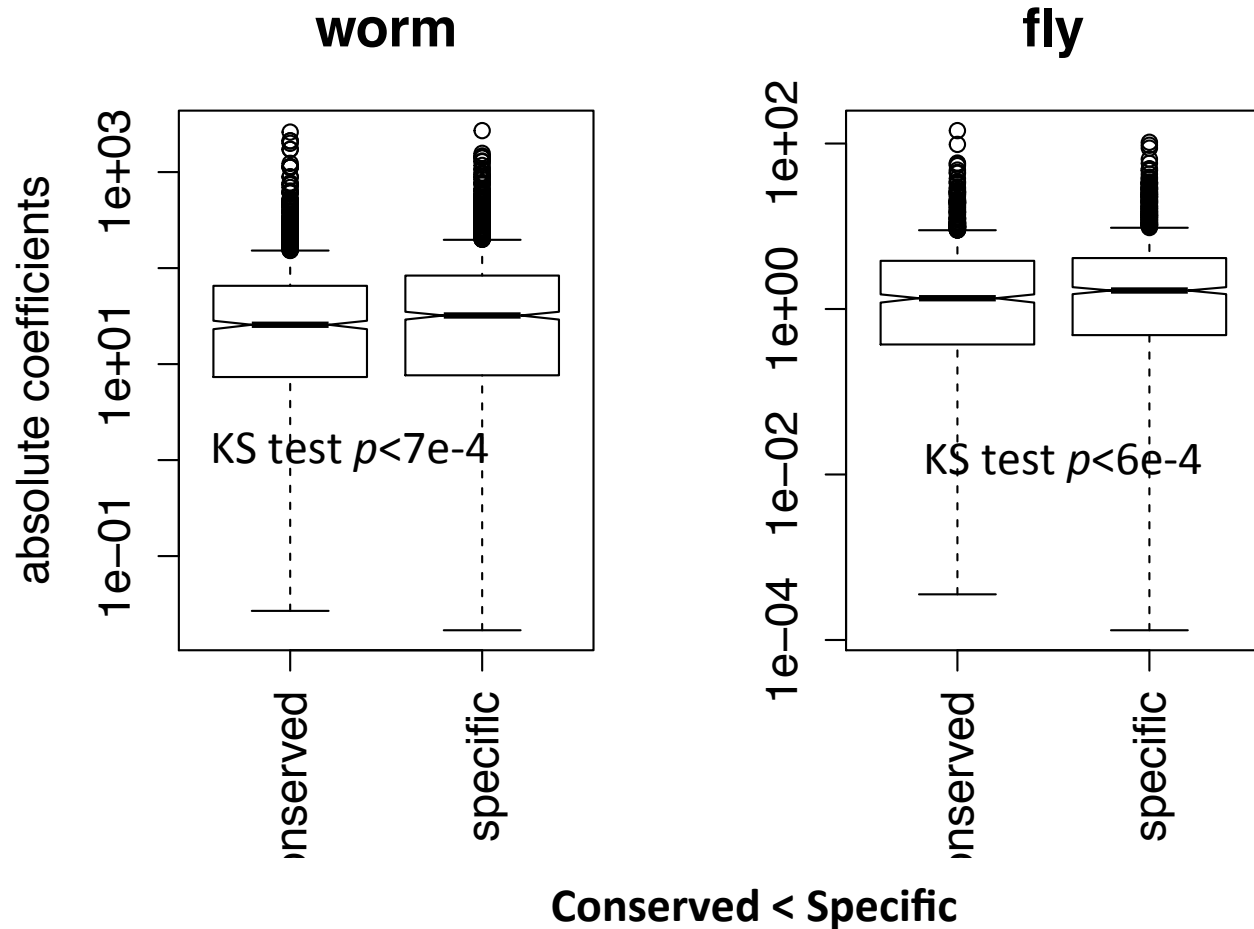
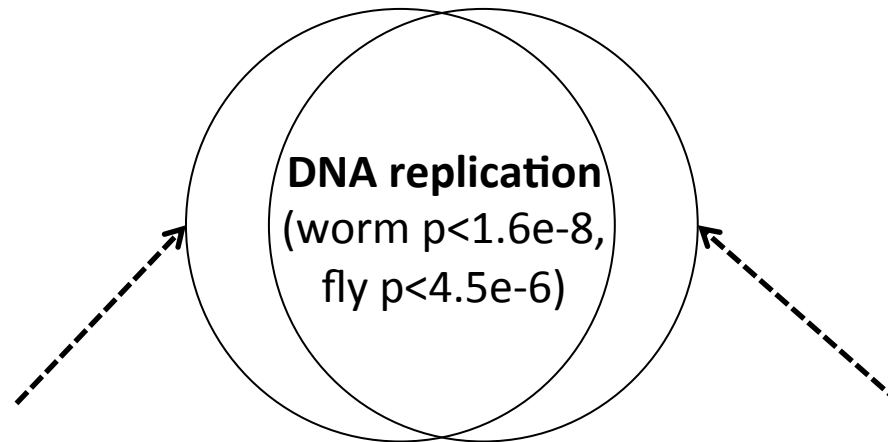
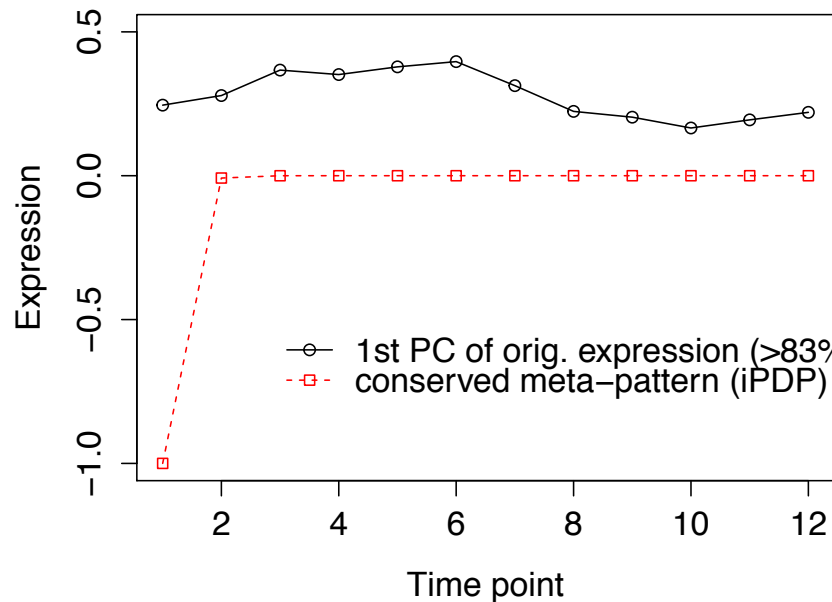


Figure 8

Top 10% orthologous genes have most negative coefficients on 2nd iPDP; i.e., fast growing pattern



Top 10% fly orthologous genes



Top 10% worm orthologous genes

