

**Figure S1. Three types of cross-talks between biological pathways mediated by motifs.** (A) Three vertices of a motif are in the same pathway. (B) Three vertices of a motif are in two pathways, which are connected by one edge. (C) Three vertices of a motif are in two pathways, which are connected by two edges. The edges that may exist in the same pathway are represented in dashed lines.

