| Modules | Num Annotated Interactions | Num Intramodular Interactions | Num Intermodular Interactions | Intermodular Percentage |
|-------------------|----------------------------|-------------------------------------|-------------------------------------|----------------------------|
| Protein complexes | 1416 | 399 | 1017 | 71.82% |
| BPs, 50 | 4565 | 716 | 3849 | 84.33% |
| Filtered BPs | 2050 | 196 | 1854 | 90.44% |

Table S 11. A substantial fraction of physical interactions are intermodular in the BinaryHQHT network. Modules gives the set of functional modules considered. These are: 1) protein complexes, 2) a subset of specific GO BP terms, each of which annotates at most 50, 100, 300, or 500 proteins in the yeast genome, or 3) a subset of filtered biological processes (as decribed in Materials and Methods). Num Annotated Interactions gives the number of interactions in the subnetwork generated from the BinaryHQHT network where nodes represent proteins in the considered modules and edges represent interactions amongst them. Num Intramodular Interactions gives the number of interactions in the subnetwork where the two interacting proteins belong to the same module. Num Intermodular Interactions gives the number of interactions in the subnetwork where the two interacting proteins belong to different modules. Intermodular Percentage gives the percentage of intermodular interactions amongst the annotated interactions.