

(a) Protein Complexes

Network	Num Cross-talks	Num Modules	Fraction of Essential Modules
<i>Y2H-union</i>	2	4	0.75
<i>BinaryHQHT</i>	46	54	0.81

(b) Filtered Biological Processes

Network	Num Cross-talks	Num Modules	Fraction of Essential Modules
<i>Y2H-union</i>	49	62	0.92
<i>BinaryHQHT</i>	618	224	0.82

Table S 13. Module-level networks for (a) protein complexes and (b) filtered biological processes. A module-level network was built for (a) protein complexes and (b) filtered biological processes using each of the networks. **Num Cross-talks** gives the number of inferred cross-talks. **Num Modules** gives the number of modules with at least one inferred cross-talk. **Fraction of Essential Modules** gives the fraction of modules having at least one essential protein, amongst modules with at least one cross-talk.