Network	Num Complexes Tested	Num Complexes with Higher Avg Essential Degree	Empirical p-value
Y2H-union	13	11 (84.62%)	7e-3
BinaryHQHT	14	11 (78.57%)	2e-2

Table S 12. Within each essential protein complex, essential proteins tend to have a higher average intracomplex degree. Num Complexes Tested gives the number of complexes considered; each has at least two essential proteins and at least two non-essential proteins with intracomplex interactions. Num Complexes with Higher Avg Essential Degree gives the number of complexes among the tested complexes where essential proteins have a higher intracomplex degree on average than non-essential proteins. To compute the Empirical p-value, we did 10,000 random permutations of protein essentiality assignment, and for each permutation we computed the number of complexes with higher average degree for its essential proteins. The *p*-value is the fraction of random permutations where the number of such complexes is greater than or equal to the actual number, computed over the 10,000 random permutations.