

**Table S7. Spearman correlation of clustering coefficient for orthologs between species.**

networks 1 and 2	$\rho$	p-val	empirical p-val
<b>Yeast-hq and Athal</b>	<b>0.35</b>	0.003	< 0.001
<b>Athal and Human-hq</b>	<b>0.34</b>	$6e-05$	0.001
<b>Fly and Human-all</b>	<b>0.28</b>	$7e-07$	< 0.001
<b>Yeast-hq and Fly</b>	<b>0.25</b>	0.003	0.003
<b>Athal and Human-all</b>	<b>0.23</b>	0.002	0.001
<b>Yeast-all and Athal</b>	<b>0.22</b>	0.02	0.012
<b>Yeast-all and Fly</b>	<b>0.17</b>	0.02	0.009
<b>Athal and Fly</b>	-0.03	0.7	0.343

Clustering coefficient correlation analysis for hubs in pairs of networks: Spearman’s rho, corresponding p-value, empirical p-value for 1000 random permutations of clustering coefficient values among hubs. Correlations with absolute value above 0.1 and both p-values < 0.05 are shown in bold. See main text and **Materials and methods** for details.