Table S3. Spearman correlation of betweenness centrality with participation and functional similarity of hubs in the network.

	participation	func. similarity
Human-hq	**0.83** $(2e-123)$	$-$**0.62** $(6e-52)$
Yeast-hq	**0.60** $(1e-44)$	$-$**0.43** $(7e-22)$
Fly	**0.62** $(2e-92)$	$-$**0.09** $(5e-03)$
Athal	**0.51** $(1e-38)$	$-$**0.09** $(3e-02)$
Ecoli	**0.39** $(6e-13)$	0.09 $(1e-01)$
Human-all	**0.83** $(1e-263)$	$-$**0.19** $(2e-09)$
Yeast-all	**0.70** $(1e-86)$	$-$**0.54** $(9e-44)$

All correlations except one are significant $(p < 0.05)$ and are shown in bold. See also Tables S1, S2 and S4.