## Supplementary Table 2

	GO		KEGG		REACTOME	
	Patients with ≥ 2 phenotypes:	Patients with ≥ 3 phenotypes:	Patients with ≥ 2 phenotypes:	Patients with ≥ 3 phenotypes:	Patients with ≥ 2 phenotypes:	Patients with ≥ 3 phenotypes:
PhenCo Clusters	895.00	261.00	586.00	110.00	458.00	71.00
Randomized Clusters	477.15 ±105.4	32.59 ±14.9	320.08 ±89.8	33.23 ±15.2	261.15 ±89.3	15.24 ±89.3

Table 2: Overlap between DECIPHER patient phenotypes and PhenCo clusters. Columns show total numbers of patients with at least 2 and 3 phenotypes in the same PhenCo cluster, for the real clusters and for clusters formed by randomizing Cluster-HPO membership, keeping the same number of HPOs per cluster and the same distribution of HPO terms.