

**Supplementary Table 3.** The results of DO (Drug) enrichment analysis of genes in three gene modules

Drugs	ID	P	Padjust	Gene module
Daunorubicin	DB_ID:PA449212	0.0026	0.0222	Black
Divalproex sodium	DB_ID:PA164783479	0.0074	0.0222	Black
Valproic acid	DB_ID:PA451846	0.0074	0.0222	Black
Cisplatin	DB_ID:PA449014	0.0074	0.0222	Black
Phenylephrine	DB_ID:PA449014	0.0050	0.0222	Black
Doxorubicin	DB_ID:PA449412	0.0035	0.0222	Black
Quinine	DB_ID:PA451213	0.0126	0.0284	Black
Cyclosporine	DB_ID:PA449167	0.0118	0.0284	Black
Glutathione	DB_ID:PA449167	0.0181	0.0358	Black
Tamoxifen	DB_ID:PA451581	0.0199	0.0358	Black
Glutathione	DB_ID:PA449780	1.13e-10	1.89e-08	Blue
Adenosine	DB_ID:PA449780	5.28e-08	4.41e-06	Blue
Dexamethasone	DB_ID:PA449247	9.18e-06	0.0005	Blue
Imatinib	DB_ID:PA10804	1.24e-05	0.0005	Blue
Sirolimus	DB_ID:PA451365	0.0001	0.0024	Blue
Adalimumab	DB_ID:PA10004	8.30e-05	0.0024	Blue
Rituximab	DB_ID:PA451261	0.0001	0.0024	Blue
Progesterone	DB_ID:PA451123	0.0002	0.0037	Blue
Fluocinolone acetonide	DB_ID:PA164754912	0.0002	0.0037	Blue
Urokinase	DB_ID:PA164754912	0.0003	0.0046	Blue
Adenosine	DB_ID:PA448049	3.71e-15	4.97e-13	Turquoise
Adenosine triphosphate	DB_ID:PA164743471	1.87e-06	0.0001	Turquoise
Glutathione	DB_ID:PA449780	4.10e-05	0.0018	Turquoise
Cisplatin	DB_ID:PA449780	0.0003	0.0100	Turquoise
Insulin recombinant	DB_ID:PA164744571	0.0004	0.0107	Turquoise
Sorafenib	DB_ID:PA7000	0.0006	0.0134	Turquoise
Allopurinol	DB_ID:PA448320	0.0011	0.0211	Turquoise
Mitomycin	DB_ID:PA448320	0.0013	0.0218	Turquoise
Ganciclovir	DB_ID:PA449733	0.0018	0.0231	Turquoise
Iodixanol	DB_ID:PA164783998	0.0019	0.0231	Turquoise