

Table S2: The Person correlation coefficients between real and predicted drug responses by ISIRS, ENR, ISIS, SIRS and STF.

methods	17.AAG	AEW541	AZD0530	AZD6244	Erlotinib	Irinotecan
ISIS	0.47	0.47	0.28	0.63	0.45	0.71
ENR	0.43	0.33	0.19	0.58	0.3	0.68
STF	0.36	0.45	0.25	0.62	0.4	0.65
ISIRS	0.48	0.49	0.31	0.63	0.42	0.71
SIRS	0.4	0.47	0.32	0.64	0.4	0.71

methods	L.685458	LBW242	Lapatinib	Nilotinib	Nutlin.3	PD.0325901
ISIS	0.52	0.21	0.48	0.42	0.28	0.69
ENR	0.48	0.1	0.47	0.78	0.12	0.64
STF	0.59	0.2	0.46	0.51	0.29	0.67
ISIRS	0.57	0.22	0.48	0.54	0.31	0.68
SIRS	0.59	0.22	0.48	0.53	0.33	0.68

methods	PD.0332991	PF2341066	PHA.665752	PLX4720	Paclitaxel	Panobinostat
ISIS	0.48	0.44	0.28	0.59	0.55	0.6
ENR	0.48	0.37	0.27	0.57	0.6	0.65
STF	0.49	0.43	0.32	0.55	0.5	0.6
ISIRS	0.49	0.46	0.32	0.46	0.6	0.63
SIRS	0.51	0.45	0.33	0.56	0.52	0.61

methods	RAF265	Sorafenib	TAE684	TKI258	Topotecan	ZD.6474
ISIS	0.45	0.47	0.51	0.42	0.66	0.38
ENR	0.37	0.27	0.37	0.34	0.59	0.26
STF	0.39	0.45	0.48	0.41	0.63	0.29
ISIRS	0.43	0.46	0.51	0.46	0.65	0.36
SIRS	0.42	0.48	0.49	0.42	0.65	0.3