

S26 Table: Genes whose expression is altered by SARS-CoV-2-related viruses that significantly interact with the 163 genes selected by TD-based unsupervised FE and enriched by “Drug Perturbations from GEO up/down” in Enrichr

Term	Overlap	P-value	Adjusted P-value
Drug Perturbations from GEO up			
MK-886 CID 3651377 human GSE3202 sample 3193	54/368	$3.90 \times 10^{-53}$	$3.53 \times 10^{-50}$
fluticasone 5311101 human GSE15823 sample 3090	53/351	$8.70 \times 10^{-53}$	$3.94 \times 10^{-50}$
1-Naphthyl isothiocyanate 11080 rat GSE5509 sample 3568	50/301	$7.71 \times 10^{-52}$	$2.33 \times 10^{-49}$
quercetin 5280343 human GSE7259 sample 3416	50/327	$6.03 \times 10^{-50}$	$1.36 \times 10^{-47}$
N-METHYLFORMAMIDE 31254 rat GSE5509 sample 3570	46/283	$4.37 \times 10^{-47}$	$7.93 \times 10^{-45}$
NICKEL 935 human GSE6907 sample 3531	46/288	$1.02 \times 10^{-46}$	$1.54 \times 10^{-44}$
apratoxin A 6326668 human GSE2742 sample 3070	43/246	$2.30 \times 10^{-45}$	$2.98 \times 10^{-43}$
quercetin 5280343 human GSE7259 sample 3415	47/336	$6.05 \times 10^{-45}$	$6.85 \times 10^{-43}$
sapphyrin PCI-2050 (1.25 &frac14;M) 9855235 human GSE6400 sample 3101	48/367	$1.71 \times 10^{-44}$	$1.72 \times 10^{-42}$
rosiglitazone DB00412 human GSE7035 sample 2810	43/281	$9.52 \times 10^{-43}$	$8.63 \times 10^{-41}$
Drug Perturbations from GEO down			
gatifloxacin 5379 human GSE9166 sample 2626	48/266	$1.61 \times 10^{-51}$	$1.46 \times 10^{-48}$
atorvastatin DB01076 human GSE2450 sample 2484	46/250	$1.02 \times 10^{-49}$	$4.62 \times 10^{-47}$
bexarotene DB00307 human GSE12791 sample 2681	46/253	$1.84 \times 10^{-49}$	$5.54 \times 10^{-47}$
clinafloxacin 60063 human GSE9166 sample 2625	55/470	$1.30 \times 10^{-48}$	$2.95 \times 10^{-46}$
motexafin gadolinium (12 h) DB05428 human GSE2189 sample 3127	48/320	$1.89 \times 10^{-47}$	$3.41 \times 10^{-45}$
BPDE 41322 human GSE19510 sample 3379	47/300	$2.36 \times 10^{-47}$	$3.55 \times 10^{-45}$
trovafloxacin 62959 human GSE9166 sample 2629	53/459	$1.98 \times 10^{-46}$	$2.55 \times 10^{-44}$
HYPOCHLOROUS ACID 24341 human GSE11630 sample 3199	40/204	$2.85 \times 10^{-44}$	$3.21 \times 10^{-42}$
trovafloxacin DB00685 human GSE9166 sample 3036	51/451	$4.05 \times 10^{-44}$	$4.06 \times 10^{-42}$
doxycycline DB00254 human GSE2624 sample 3077	48/391	$3.82 \times 10^{-43}$	$3.45 \times 10^{-41}$