

S5 Table: Chelerythrine chlorid significantly affects the expression of the selected 163 genes as evident in the “LINCS L1000 Chem Pert up/down” category in Enrichr. The last number after the - is dose density.

Term	Overlap	P-value	Adjusted P-value
LINCS L1000 Chem Pert up			
LJP009 MCF7 24H-chelerythrine chloride-10	$2.01 \times 10^{-23}$	$2.22 \times 10^{-19}$	
LJP009 HEPG2 24H-chelerythrine chloride-3.33	16/50	$6.92 \times 10^{-22}$	$4.58 \times 10^{-18}$
LJP009 PC3 24H-chelerythrine chloride-10	14/149	$2.04 \times 10^{-11}$	$3.11 \times 10^{-9}$
LJP009 A375 24H-chelerythrine chloride-1.11	9/55	$5.86 \times 10^{-10}$	$4.84 \times 10^{-8}$
LJP009 A375 24H-chelerythrine chloride-3.33	8/57	$1.93 \times 10^{-8}$	$8.87 \times 10^{-7}$
LJP009 HT29 24H-chelerythrine chloride-10	9/94	$7.48 \times 10^{-8}$	$2.82 \times 10^{-6}$
LJP009 HCC515 24H-chelerythrine chloride-10	8/71	$1.13 \times 10^{-7}$	$4.00 \times 10^{-6}$
LJP009 HA1E 24H-chelerythrine chloride-3.33	5/33	$6.67 \times 10^{-6}$	$1.20 \times 10^{-4}$
LJP009 HCC515 24H-chelerythrine chloride-0.04	3/28	$1.50 \times 10^{-3}$	$1.08 \times 10^{-2}$
LJP009 PC3 24H-chelerythrine chloride-1.11	3/42	$4.83 \times 10^{-3}$	$2.80 \times 10^{-2}$
LINCS L1000 Chem Pert down			
LJP009 HEPG2 24H-chelerythrine chloride-10	14/137	$6.46 \times 10^{-12}$	$1.15 \times 10^{-9}$
LJP009 HCC515 24H-chelerythrine chloride-10	8/51	$7.74 \times 10^{-9}$	$3.90 \times 10^{-7}$
LJP009 A375 24H-chelerythrine chloride-1.11	5/45	$3.17 \times 10^{-5}$	$4.35 \times 10^{-4}$
LJP009 HEPG2 24H-chelerythrine chloride-3.33	3/26	$1.20 \times 10^{-3}$	$9.11 \times 10^{-3}$
LJP009 A375 24H-chelerythrine chloride-3.33	3/48	$7.03 \times 10^{-3}$	$3.83 \times 10^{-2}$