

S7 Table: Canertinib significantly affects the expression of the selected 163 genes as evident in the “LINCS L1000 Chem Pert down” category in Enrichr. The last number after the - is dose density.

Term	Overlap	P-value	Adjusted P-value
LINCS L1000 Chem Pert down			
LJP006 HME1 24H-canertinib-10	13/89	$3.55 \times 10^{-13}$	$1.12 \times 10^{-10}$
LJP006 HME1 3H-canertinib-10	15/139	$4.94 \times 10^{-13}$	$1.46 \times 10^{-10}$
LJP006 BT20 24H-canertinib-10	14/128	$2.53 \times 10^{-12}$	$5.44 \times 10^{-10}$
LJP006 HS578T 24H-canertinib-10	12/92	$1.18 \times 10^{-11}$	$1.79 \times 10^{-9}$
LJP006 BT20 24H-canertinib-3.33	11/81	$5.56 \times 10^{-11}$	$6.53 \times 10^{-9}$
LJP006 HA1E 24H-canertinib-10	11/93	$2.57 \times 10^{-10}$	$2.29 \times 10^{-8}$
LJP006 SKBR3 24H-canertinib-3.33	10/83	$1.43 \times 10^{-9}$	$9.39 \times 10^{-8}$
LJP006 SKBR3 24H-canertinib-0.37	9/65	$2.75 \times 10^{-9}$	$1.62 \times 10^{-7}$
LJP006 MCF10A 3H-canertinib-1.11	10/98	$7.41 \times 10^{-9}$	$3.75 \times 10^{-7}$
LJP006 HME1 3H-canertinib-1.11	9/82	$2.24 \times 10^{-8}$	$9.31 \times 10^{-7}$
LJP006 BT20 24H-canertinib-0.37	8/63	$4.34 \times 10^{-8}$	$1.66 \times 10^{-6}$
LJP006 HS578T 3H-canertinib-10	7/54	$2.69 \times 10^{-7}$	$7.75 \times 10^{-6}$
LJP006 MCF10A 3H-canertinib-0.37	8/85	$4.63 \times 10^{-7}$	$1.20 \times 10^{-5}$
LJP006 MCF10A 24H-canertinib-3.33	11/193	$5.44 \times 10^{-7}$	$1.38 \times 10^{-5}$
LJP006 HME1 3H-canertinib-3.33	8/89	$6.61 \times 10^{-7}$	$1.62 \times 10^{-5}$
LJP006 BT20 24H-canertinib-0.04	6/46	$1.91 \times 10^{-6}$	$3.98 \times 10^{-5}$
LJP006 HS578T 3H-canertinib-0.04	6/49	$2.80 \times 10^{-6}$	$5.46 \times 10^{-5}$
LJP006 HCC515 24H-canertinib-10	7/79	$3.72 \times 10^{-6}$	$6.95 \times 10^{-5}$
LJP006 BT20 24H-canertinib-1.11	6/52	$3.99 \times 10^{-6}$	$7.42 \times 10^{-5}$
LJP006 SKBR3 24H-canertinib-1.11	7/80	$4.05 \times 10^{-6}$	$7.48 \times 10^{-5}$
LJP006 SKBR3 24H-canertinib-10	7/85	$6.08 \times 10^{-6}$	$1.06 \times 10^{-4}$
LJP006 MCF10A 24H-canertinib-0.12	9/170	$1.09 \times 10^{-5}$	$1.75 \times 10^{-4}$
LJP006 MCF10A 3H-canertinib-3.33	7/94	$1.19 \times 10^{-5}$	$1.87 \times 10^{-4}$
LJP006 SKBR3 24H-canertinib-0.12	7/94	$1.19 \times 10^{-5}$	$1.87 \times 10^{-4}$
LJP006 A375 24H-canertinib-10	7/100	$1.78 \times 10^{-5}$	$2.62 \times 10^{-4}$
LJP006 MCF10A 3H-canertinib-0.12	7/100	$1.78 \times 10^{-5}$	$2.62 \times 10^{-4}$
LJP006 HA1E 24H-canertinib-3.33	6/71	$2.47 \times 10^{-5}$	$3.51 \times 10^{-4}$
LJP006 HCC515 24H-canertinib-3.33	6/72	$2.68 \times 10^{-5}$	$3.77 \times 10^{-4}$
LJP006 MCF10A 3H-canertinib-10	5/46	$3.54 \times 10^{-5}$	$4.75 \times 10^{-4}$
LJP006 MCF7 3H-canertinib-10	4/28	$7.47 \times 10^{-5}$	$8.87 \times 10^{-4}$
LJP006 HME1 3H-canertinib-0.12	5/61	$1.39 \times 10^{-4}$	$1.49 \times 10^{-3}$
LJP006 BT20 3H-canertinib-10	4/33	$1.45 \times 10^{-4}$	$1.53 \times 10^{-3}$
LJP006 HME1 24H-canertinib-0.12	5/64	$1.75 \times 10^{-4}$	$1.81 \times 10^{-3}$
LJP006 HME1 24H-canertinib-0.04	5/72	$3.05 \times 10^{-4}$	$2.90 \times 10^{-3}$
LJP006 HME1 24H-canertinib-0.37	5/73	$3.25 \times 10^{-4}$	$3.06 \times 10^{-3}$
LJP006 HME1 3H-canertinib-0.37	5/73	$3.25 \times 10^{-4}$	$3.06 \times 10^{-3}$
LJP006 MDAMB231 24H-canertinib-10	5/76	$3.92 \times 10^{-4}$	$3.56 \times 10^{-3}$
LJP006 SKBR3 3H-canertinib-0.37	3/19	$4.68 \times 10^{-4}$	$4.14 \times 10^{-3}$
LJP006 A375 24H-canertinib-3.33	4/45	$4.88 \times 10^{-4}$	$4.29 \times 10^{-3}$
LJP006 HME1 24H-canertinib-1.11	5/82	$5.56 \times 10^{-4}$	$4.77 \times 10^{-3}$
LJP006 MCF7 24H-canertinib-10	5/83	$5.88 \times 10^{-4}$	$4.98 \times 10^{-3}$
LJP006 A375 24H-canertinib-1.11	4/51	$7.89 \times 10^{-4}$	$6.40 \times 10^{-3}$
LJP006 MCF10A 3H-canertinib-0.04	4/51	$7.89 \times 10^{-4}$	$6.39 \times 10^{-3}$
LJP006 BT20 3H-canertinib-0.12	3/24	$9.48 \times 10^{-4}$	$7.48 \times 10^{-3}$
LJP006 SKBR3 24H-canertinib-0.04	5/93	$9.86 \times 10^{-4}$	$7.71 \times 10^{-3}$
LJP006 HCC515 24H-canertinib-0.04	3/25	$1.07 \times 10^{-3}$	$8.26 \times 10^{-3}$
LJP006 HME1 3H-canertinib-0.04	4/57	$1.20 \times 10^{-3}$	$9.10 \times 10^{-3}$
LJP006 SKBR3 3H-canertinib-10	3/26	$1.20 \times 10^{-3}$	$9.09 \times 10^{-3}$
LJP006 MDAMB231 3H-canertinib-10	4/62	$1.64 \times 10^{-3}$	$1.18 \times 10^{-2}$
LJP006 BT20 24H-canertinib-0.12	3/32	$2.22 \times 10^{-3}$	$1.51 \times 10^{-2}$
LJP006 MCF7 24H-canertinib-3.33	3/37	$3.37 \times 10^{-3}$	$2.13 \times 10^{-2}$
LJP006 HCC515 24H-canertinib-0.37	3/39	$3.92 \times 10^{-3}$	$2.41 \times 10^{-2}$
LJP006 MCF10A 24H-canertinib-0.04	6/186	$4.25 \times 10^{-3}$	$2.57 \times 10^{-2}$
LJP006 A549 24H-canertinib-10	3/43	$5.16 \times 10^{-3}$	$3.00 \times 10^{-2}$
LJP006 MDAMB231 24H-canertinib-3.33	2/17	$8.29 \times 10^{-3}$	$4.36 \times 10^{-2}$