S5 Table: Chelerythrine chloride 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 × 10^{-23} | 2.22 × 10^{-19} | |
| LJP009 HEPG2 24H-chelerythrine chloride-3.33 | 16/50 | 6.92 × 10^{-22} | 4.58 × 10^{-18} |
| LJP009 PC3 24H-chelerythrine chloride-10 | 14/149 | 2.04 × 10^{-11} | 3.11 × 10^{-9} |
| LJP009 A375 24H-chelerythrine chloride-1.11 | 9/55 | 5.86 × 10^{-10} | 4.84 × 10^{-8} |
| LJP009 A375 24H-chelerythrine chloride-3.33 | 8/57 | 1.93 × 10^{-8} | 8.87 × 10^{-7} |
| LJP009 HT29 24H-chelerythrine chloride-10 | 9/94 | 7.48 × 10^{-8} | 2.82 × 10^{-6} |
| LJP009 HCC515 24H-chelerythrine chloride-10 | 8/71 | 1.13 × 10^{-7} | 4.00 × 10^{-6} |
| LJP009 HA1E 24H-chelerythrine chloride-3.33 | 5/33 | 6.67 × 10^{-6} | 1.20 × 10^{-4} |
| LJP009 HCC515 24H-chelerythrine chloride-0.04 | 3/28 | 1.50 × 10^{-4} | 1.08 × 10^{-2} |
| LJP009 PC3 24H-chelerythrine chloride-1.11 | 3/42 | 4.83 × 10^{-3} | 2.80 × 10^{-2} |
| **LINCS L1000 Chem Pert down** | | | |
| LJP009 HEPG2 24H-chelerythrine chloride-10 | 14/137 | 6.46 × 10^{-12} | 1.15 × 10^{-9} |
| LJP009 HCC515 24H-chelerythrine chloride-10 | 8/51 | 7.74 × 10^{-9} | 3.90 × 10^{-7} |
| LJP009 A375 24H-chelerythrine chloride-1.11 | 5/45 | 3.17 × 10^{-5} | 4.35 × 10^{-4} |
| LJP009 HEPG2 24H-chelerythrine chloride-3.33 | 3/26 | 1.20 × 10^{-3} | 9.11 × 10^{-3} |
| LJP009 A375 24H-chelerythrine chloride-3.33 | 3/48 | 7.03 × 10^{-3} | 3.83 × 10^{-2} |