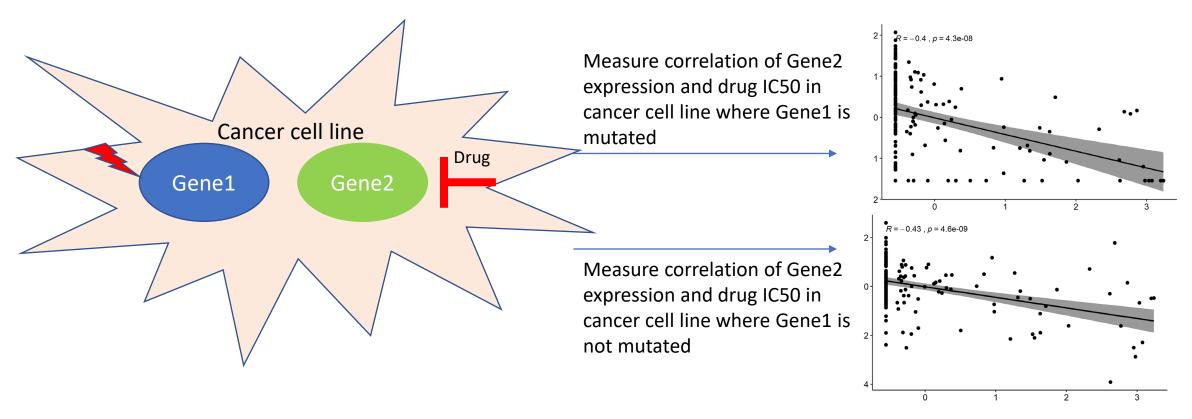
Gene expression- Drug IC50 correlation in presence of mutation in primary gene



- ❖ To assess the drug-targetability of the SL gene (gene2) in cancer cell lines where the primary gene (gene1) is mutated, Gene expression – Drug IC50 correlation is calculated for Gene2 and the drug targeting Gene2 using the Genomics of Drug Sensitivity in Cancer (GDSC) project data.
- ❖ Cancer cell lines carrying mutation in the primary gene is collected from COSMIC mutation data. Samples are stratified in two groups: with mutation in gene1 and without mutation in gene1.
- ❖ In both of these groups of cell-lines, correlation of expression of SL gene (Gene2) and IC50 of the drug targeting Gene2 is calculated.