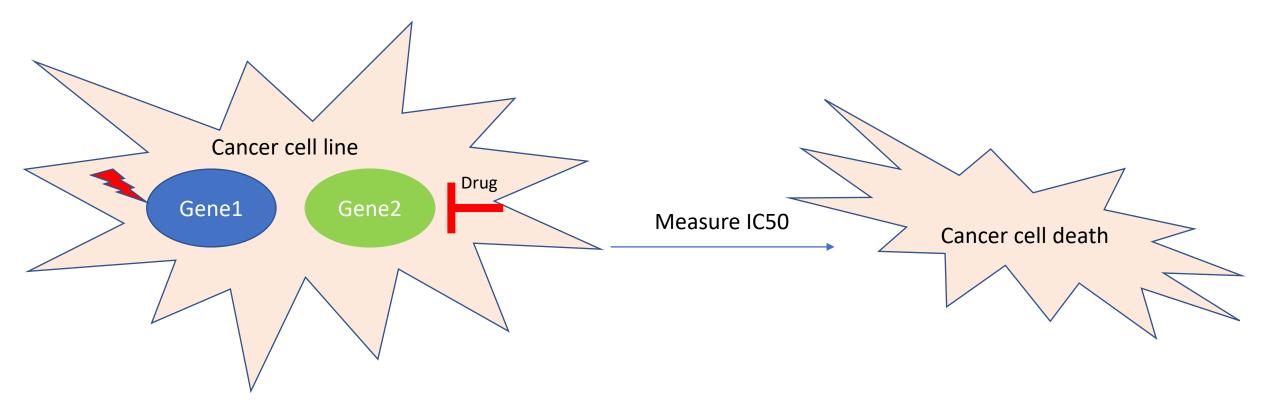
Drug Sensitivity in presence of mutation in primary gene



- To assess the drug-targetability of the SL gene (gene2) in cancer cell lines where the primary gene (gene1) is mutated, DrugSensitivity is calculated 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.
- ❖ T-test is performed with GDSC drug LN IC50 values between these two groups of cell lines (+/- mutation in gene1) to check whether drug sensitivity (-log10(IC50)) for targeting gene2 is more in cells carrying mutation in gene1.