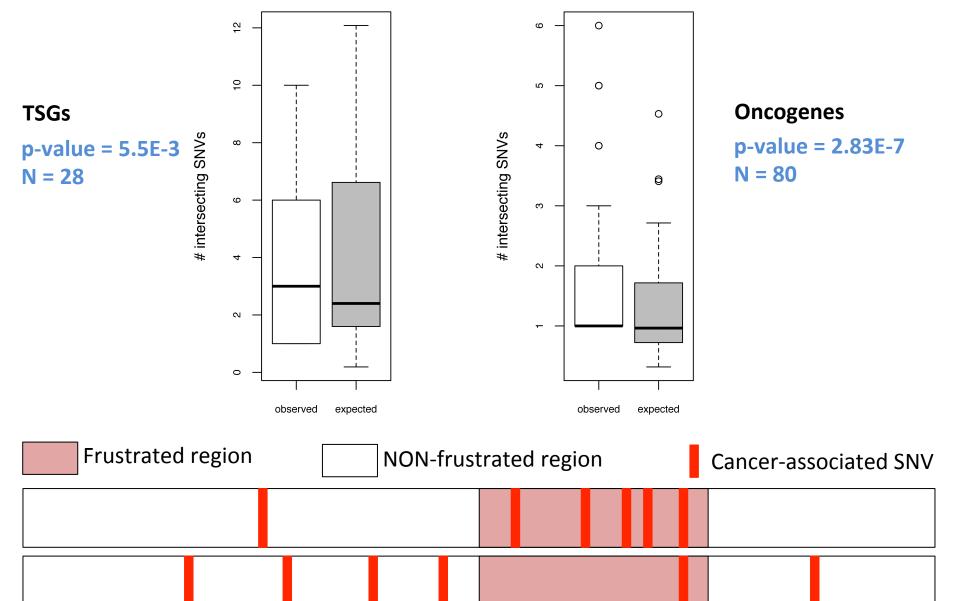
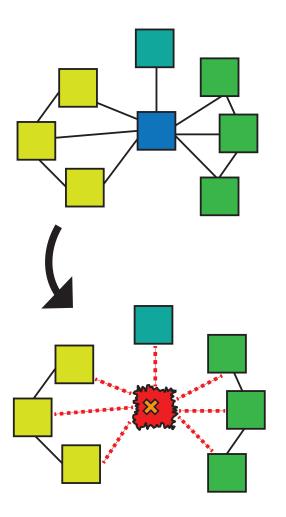
Maximally Frustr. Residues Using the Single-Residue Index



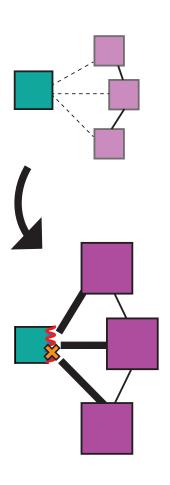
Observed: X = # of cancer-associated SNVs that intersect frustrated regions (5 in this case)

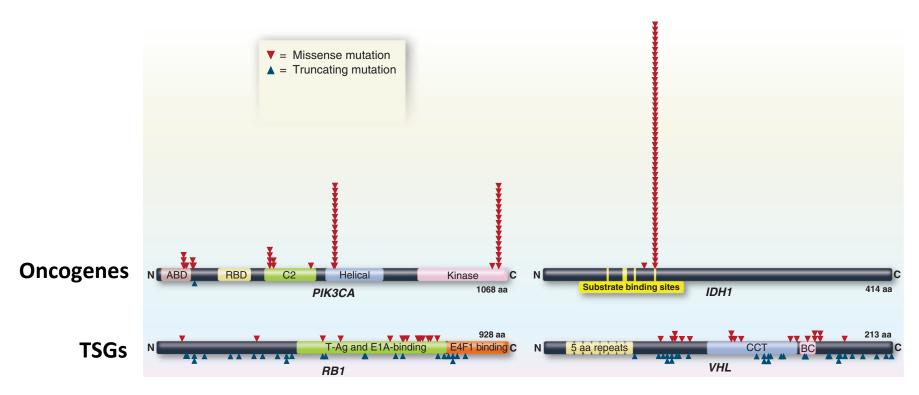
Expected: E[X] = [# frustrated residues / total # residues in protein] * [total # of cancer-associated SNVs]

Naive mechanism for the effects of many **TSG**-associated SNVs **Loss-of-Function Affects**



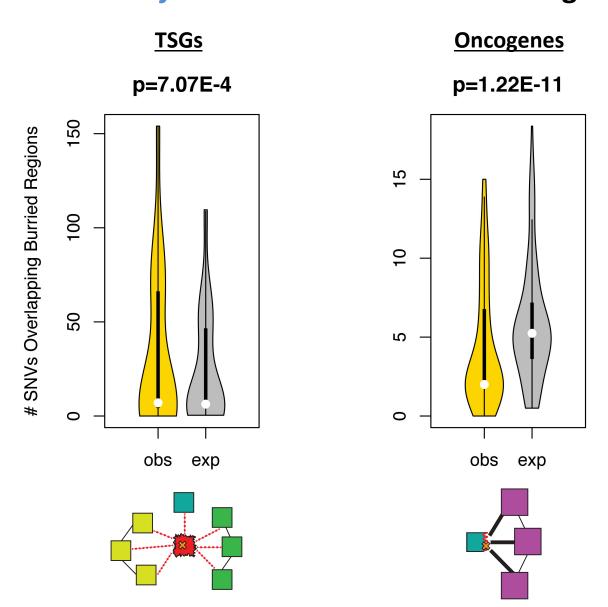
Naive mechanism for the effects of many **oncogene**-associated SNVs **Gain-of-Function Affects**





Vogelstein, Bert, et al. "Cancer genome landscapes." Science (2013)

"Redundant" model: Counting the # of SNVs that intersect buried regions



"Non-Redundant" model: Counting the # of buried residues that intersect cancer-associated SNVs

