

Positive simulation
neopeptides



T cell activated dataset
from **IEDB**



Peptides which could
elicit positive T- cell
response in humans
(mutation peptides)

Reviewed SwissProt
human proteins from
UniProt database



Peptides which were best-match with up to 2 amino
acids by Sequence alignment
(wild peptides)



Filtering by netMHCpan result (HLA alleles matched with selected positive peptides from IEDB)

Negative simulation
neopeptides



dbSNP v.141 from **NCBI**



Peptides which selected common
non-synonymous single nucleotide
polymorphisms(minor allele
frequency[MAF] > 0.05)
(mutation peptides)



Non-mutation peptide
corresponding with SNP
(wild peptides)

