

Part 3: Gene Panel Selection

Patient 1 and 2 are of the same age and ethnic background. They both have developed breast cancer and have come to you to get their tumour sequenced. Your job is to choose 7 out of 12 genes to have sequenced for both patients that will help provide information about each individuals' tumour.

Using your knowledge of gene expression and the hallmarks of cancer, pick the 7 genes you think should be sequenced.

Hint: Look at what the protein encoded from the gene does, then think about what would happen if that protein was non-functional and then think about if its loss plays a role in helping cancer cells grow. Green arrowheads = activation, Red blunt ends = inhibition