

CONCEPT: RNA INTERFERENCE

- **RNA interference (RNAi)** is a technique that can inactivate a gene
 - RNAi uses non-coding RNAs like miRNA, siRNAs, or shRNAs
 - These are _____ into a cell or organisms
 - They are complementary to a DNA sequence – and bind to that sequence
 - Act to specifically degrade or block expression of a gene – inhibiting its function
 - By inhibiting the gene, this allows scientists to determine the genes function
 - Determines phenotype in gene's absence
 - Allows for the gene to be replaced (*recovery*)

EXAMPLE:

