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Genome editing, or genome engineering, or gene editing, is a type of genetic engineering in which DNA is inserted, deleted, modified or replaced in the genome of a living organism. Unlike early genetic engineering techniques that randomly inserts genetic material into a host genome, genome editing targets the insertions to site specific locations.

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The study of RNA interference, editing, and modification has led to major shifts in our understanding of how genes are expressed and regulated. In RNA Interference, Editing, and Modification: Methods and Protocols, hands-on experimentalists describe in detail the protocols and assays they have developed to study these pro-

cesses in most of the major biological systems in which they are known to occur—a wide range of organisms that includes worms, flies, trypanosomes, mammals, and plants.

RNA interference (RNAi) is a method of blocking gene function by inserting short sequences of ribonucleic acid (RNA) that match part of the target gene's sequence, thus no proteins are produced.

CRISPR or Clustered Regularly Interspaced Short Palindromic Repeats is a naturally occurring prokaryotic immune defense mechanism that has been recently used for eukaryotic gene editing and modification. RNAi or RNA interference is a sequence-specific method to silence genes by introducing small double-stranded RNA which mediates with nucleic acids and regulate gene expression. This can be taken as the basic difference between CRISPR and RNAi.

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Since RNA editing has an impact on various biological processes, there have been studies showing that aberrant activities of

deaminase proteins can lead to various human diseases such as cancer and neurological disorders. In fact, higher levels of RNA editing and high expression of these proteins are often found in cancer. Therefore, modulating RNA editing mediated by these proteins can be a promising therapeutic strategy for cancer treatment. References

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