CRISPR/Cas9 are sequences of DNA and proteins that can work to fix genes that cause disease.

CRISPR/Cas9 can bind to DNA and prevent genes that cause disease from being expressed.

CRISPR/Cas9 can cut out disease-causing parts of a gene.

They can also insert new genes into DNA.

CRISPR/Cas9 could be the key to unlocking the cure for many genetic diseases.

Treatment of HIV/AIDS

HIV targets our T helper immune cells and inserts its own DNA into ours.

CRISPR/Cas9 has been shown to cut and mutate the viral DNA so that it cannot infect other cells.

Treatment of Cancer

In cancer cells, tumor suppressor genes are mutated.

CRISPR/Cas9 has been shown to activate the gene that fights tumor formation in bladder cancer.

Based on an original article by Brad Broyles in BU Well Volume 2

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