MilliporeSigma's 50+ CRISPR Patents Leading the way in genome-editing technology



CRISPR Integration:

CRISPR/Cas9 System for

Patents Received

🔶 2021 ★ 2022

Compositions and use of CRISPR/Cas9 to integrate a new sequence of DNA after cutting genomic DNA

 $2017 \bigcirc 2018 \land 2019 \bigcirc 2020$

CRISPR-chrom:

Fuses chromatin-modulating peptides to the CRISPR/Cas9 protein (the DNA scissors of CRISPR), thereby increasing access to the genome

Patents Received

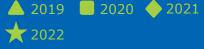
• 2021

proxy-CRISPR:

New genome-editing technique that makes CRISPR more efficient, flexible and specific

Opens up the genome for modification of DNA, providing more experimental options, faster results

Patents Received



U.S.

CANADA

BRAZIL

EUROPE ISRAEL

2020

U.K.

INDIA OT

SINGAPORE

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CHINA

SOUTH KOREA

AUSTRALIA

JAPAN

Novel Genome Modification Systems:

Other Genome Modification Systems incl. alternative Cas9 proteins, fusion proteins, and compositions for genome editing

Patents Received



Paired Nickase:

Cleavage of Chromosomal Sequences using Dual Nickases

Compositions and use of two Cas9 nickases to cut genomic DNA, optionally followed by integration of new DNA sequence

Patents Received ○ 2018 ▲ 2019