

Merck's 23 CRISPR Patents

Leading the way in genome-editing technology

CRISPR Integration: CRISPR-chrom: proxy-CRISPR: New genome-editing technique that makes CRISPR more efficient, flexible and specific Compositions and use of CRISPR/Cas9 to integrate a new sequence of DNA after Fuses chromatin-modulating peptides to the Opens up the genome for modification of cutting genomic DNA CRISPR/Cas9 protein (the DNA scissors of CRISPR), DNA, providing more experimental options, thereby increasing access to the genome faster results **Patents Received Patents Received Patents Received 2**017 **2**018 **A** 2019 **2019 Patents Pending Patents Pending** U.K. CANADA EUROPE SOUTH KOREA U.S. JAPAN CHINA ISRAEL INDIA O SINGAPORE **Paired Nickase:** Cleavage of Chromosomal BRAZIL Sequences using Dual Nickases **AUSTRALIA** Compositions and use of two Cas9 nickases to cut genomic DNA, optionally followed by integration of new DNA sequence **Patents Received** O 2018 A 2019 **Patents Pending**

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