

# MilliporeSigma's 22 CRISPR Patents

## Leading the way in genome-editing technology

### CRISPR Integration:

CRISPR/Cas9 System for Insertion in Eukaryotic Cells

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

#### Patents Received

● 2017 ○ 2018 ▲ 2019

#### Patents Pending

●

### 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

▲ 2019

#### Patents Pending

●

### Paired Nickase:

Cleavage of Chromosomal Sequences using Dual Nickases

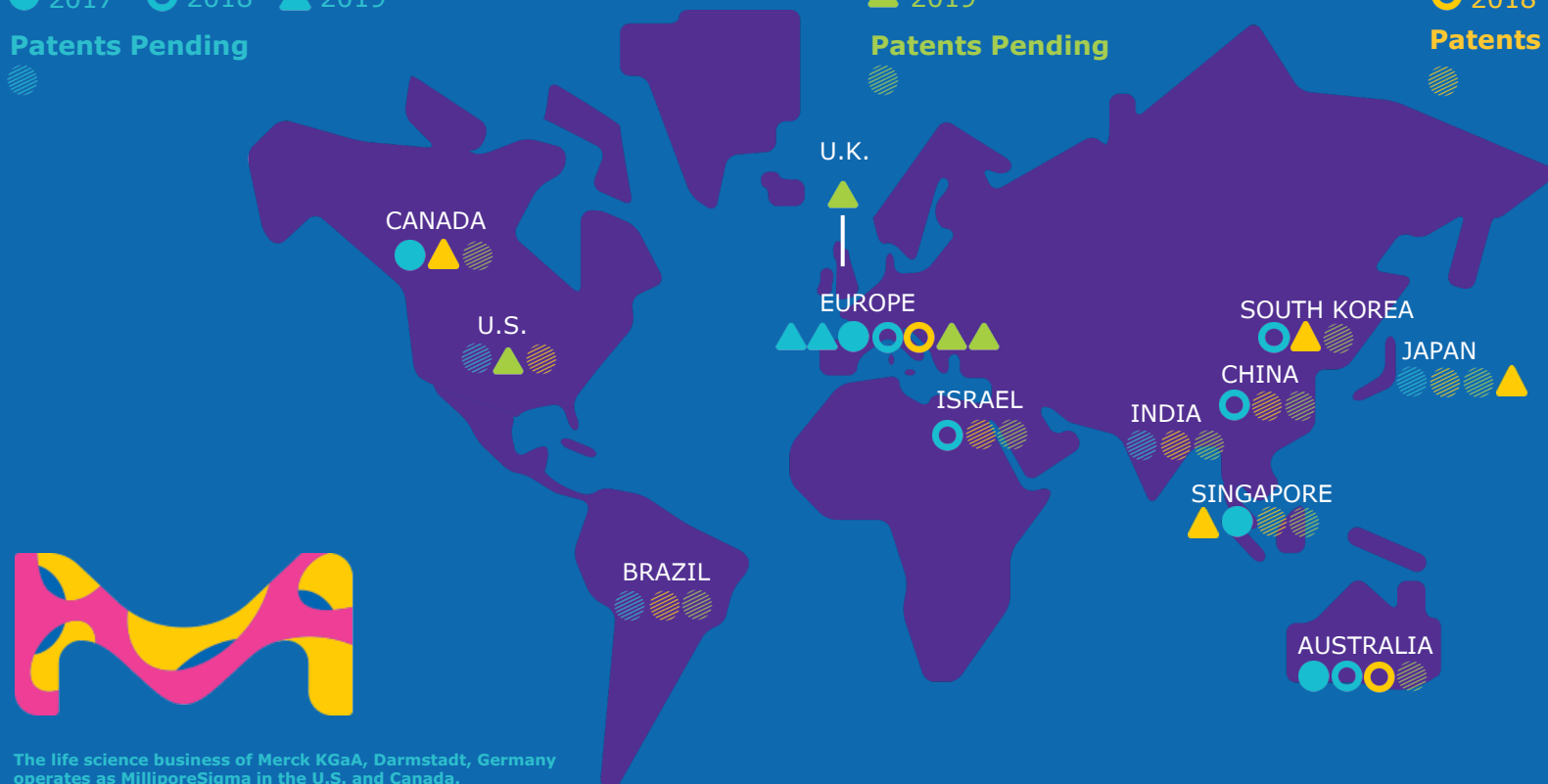
Compositions and use of two Cas9 nickases to cut genomic DNA, optionally followed by integration of new DNA sequence

#### Patents Received

○ 2018 ▲ 2019

#### Patents Pending

●



The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.