

(CRISPR)

Mr. Shawn Minnig 2016 12 30 () Dr Jeff Carroll
 Prof Wooseok Im 2016 10 31 ()

CRISPR/Cas9

?

(ASO, antisense oligonucleotide)

(<http://en.HDbuzz.net/204>),

AOS
 ASO
 (<http://en.HDbuzz.net/023>),

CRISPR

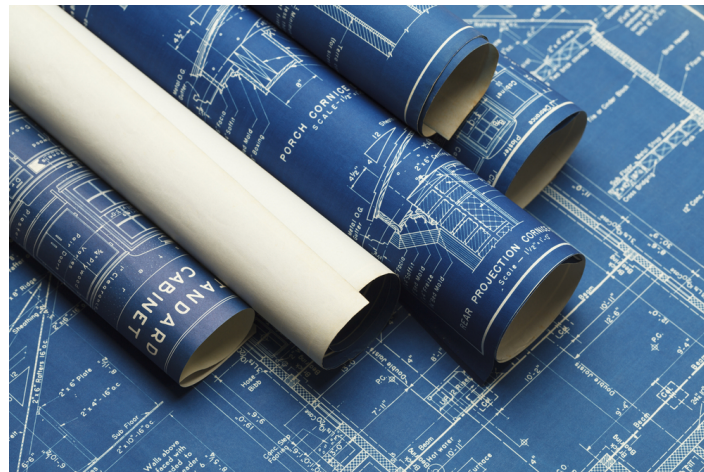
DNA

DNA

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DNA

DNA



DNA

, mRNA

DNA

DNA

messenger RNA

mRNA

DNA

DNA

, mRNA

3 , DNA → mRNA →

ASO's, Zinc Fingers, CRISPR :

DNA mRNA

ASO, Zinc Finger, CRISPR/Cas9

ASO

ASO DNA

mRNA

ASO

mRNA

ASO

ASO

DNA

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mRNA

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** CRISPR/Cas9

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DNA

DNA

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CRISPR/Cas9

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ASO

ASO

CRISPR

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HDBuzz

(<http://en.HDbuzz.net/103>).

Imperial College

Mark Isalan

AAV

Isalan

CRISPR

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CRISPR

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CRISPR

, Massachusetts General Hospital

CRISPR

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DNA

ASO

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CRISPR Sangamo Biosciences Shire Pharmaceuticals !

FAQ ...



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