

HD



HD

Mr. Shawn Minnig 2016 11 07
 Dr Jeff Carroll ; Xi Cao
 2016 10 31

zinc finger nucleases

CRISPR/Cas9

ASOs

ASO

CRISPR

DNA

DNA

DNA

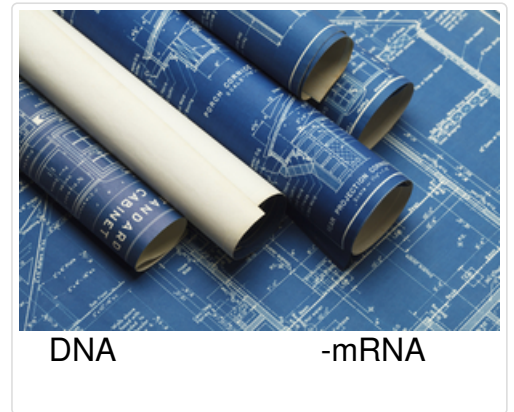
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DNA

HD

...

DNA



DNA

-mRNA

RNA mRNA DNA

DNA

mRNA

DNA -> mRNA ->

ASO

CRISPR

ASO CRISP

DNA HD

mRNA HD

ASO
mRNA

ASO

mRNA DNA

ASO

mRNA

ASO
mRNA

ASO
ASO

“ ”

HD DNA HD

DNA

ASO

CRISPR/Cas9

HD

DNA

DNA

HD

HD

mRNA

ASO ASO

mRNA

CRISPR/Cas9 CRISPR/Cas9 DNA DNA
CRISPR DNA CRISPR DNA CRISPR HD HD
mRNA

ASO ASOS
CRISPR

“

DNA
HD HDbuzz ”

Mark Isalan AAV
Isalan HD
HD

CRISPR HD

CRISPR
CRISPR HD Jong Min Lee CRISPR HD CRISPR
HD HD
CRISPR – 1000 HD
CRISPR DNA ASO ASO ASO
HD HD HD

CRISPR
HD CRISPR
HD
—Sangamo Shire HD

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