

# Gene Editing: Taking the wheel of evolution

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## Opportunities & Challenges

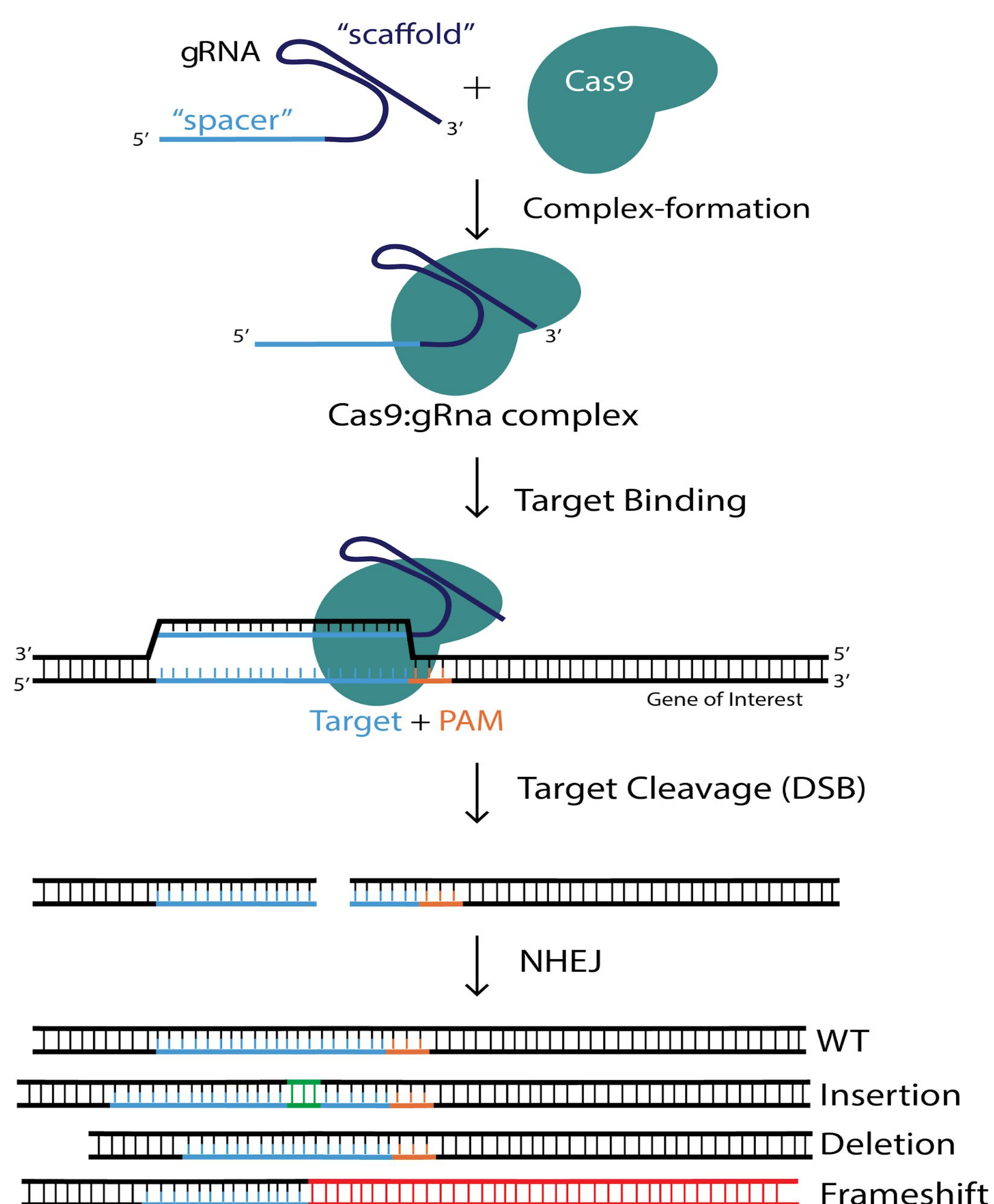
- World free of threats to human welfare
- CRISPR is a game changer<sup>1</sup>
- Gene editing must grip governance attention

## Application of Gene Editing

- Manipulation of animal genes<sup>2</sup>
- Editing out antibiotic resistance<sup>3</sup>
- The first genetically modified humans were created in 2018

## The World Meets CRISPR

- CRISPR - Clustered Regularly Interspaced Short Palindromic Repeats
- First discovered as a way that *E. coli* defends against viruses
- Allows scientists to alter DNA sequences and modify gene function



## What does the future look like?

- Potential new innovative tools besides CRISPR-cas-9: rAAV gene therapy
- Increases to biodiversity as a whole
- International Summit on Human Gene Editing: A Global Discussion



## References

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