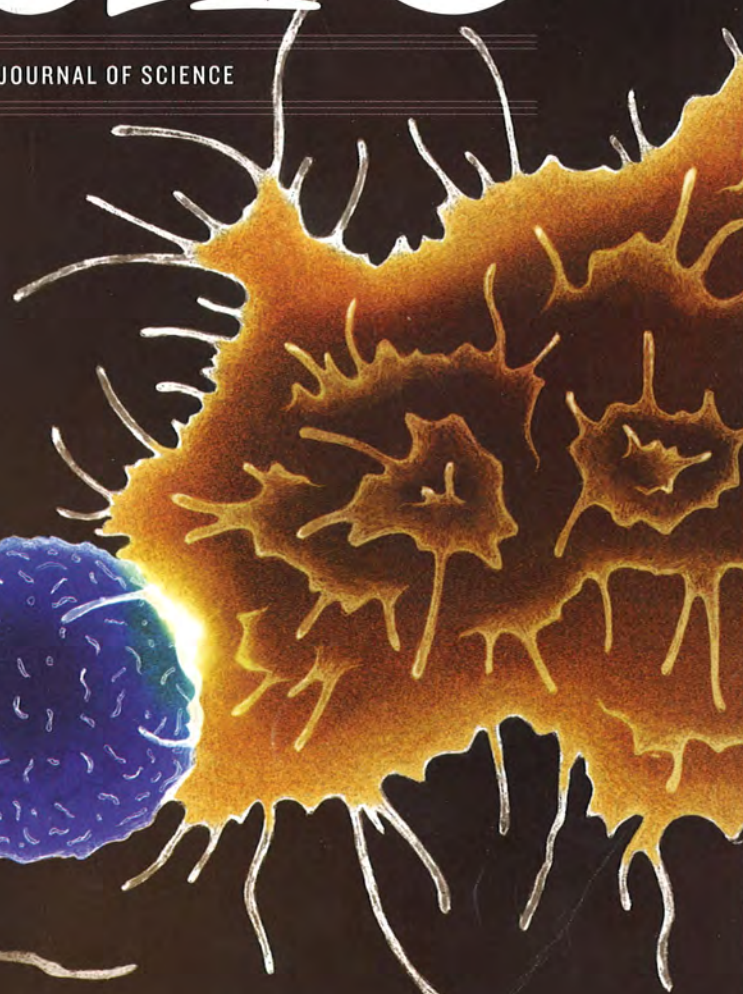


# nature

THE INTERNATIONAL WEEKLY JOURNAL OF SCIENCE

Antitumour immunity  
enhanced by inhibiting  
PD-L1/PD-1 and identifying  
mutant neo-antigens

PAGES 496, 558, 563, 568, 572 & 577



## IMMUNE-CHECKPOINT BLOCKADE IN CANCER

DO NOT REMOVE FROM  
CURRENT PERIODICALS  
ROOM

PEER REVIEW

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MICROSCOPY

**THE CASE FOR  
AIMING HIGHER**  
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ENERGY

**'NIGHT-TIME'  
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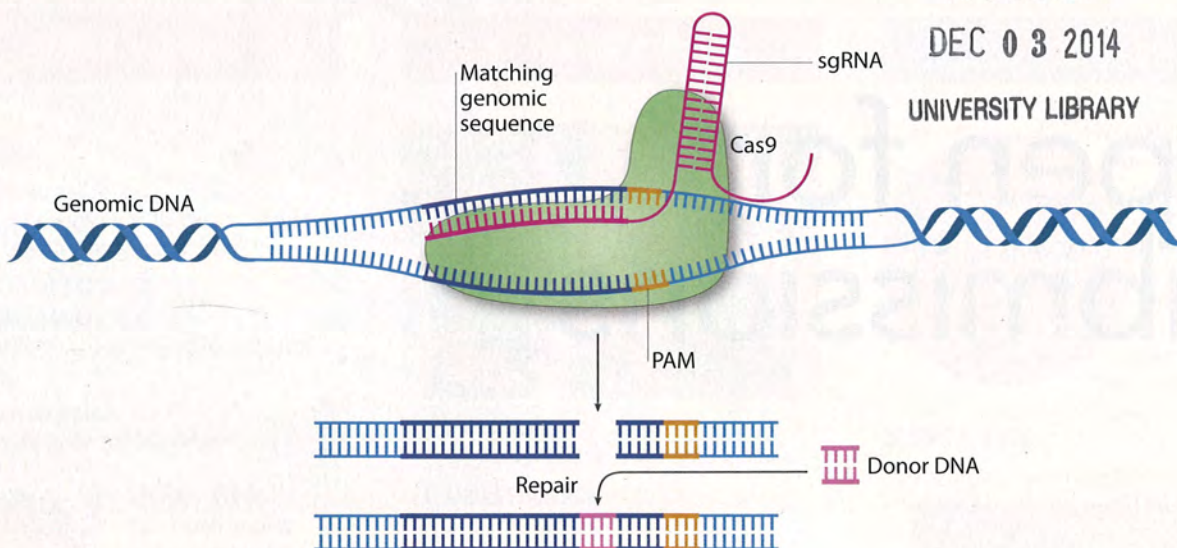
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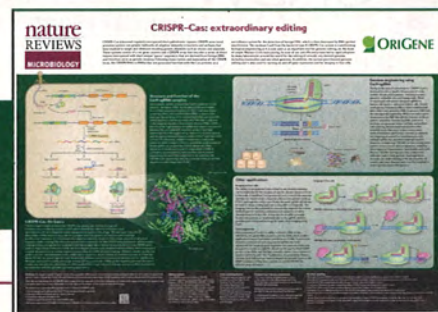
FREE POSTER

## CRISPR-Cas: extraordinary editing

The CRISPR-Cas system evolved to provide adaptive immunity in bacteria and archaea against invading genetic elements, such as viruses and plasmids. The mechanism of interference is based on CRISPR RNAs, which are derived from foreign DNA and mediate the detection of invading nucleic acids, followed by degradation by the Cas proteins. This poster presents the molecular mechanism of CRISPR-Cas interference and highlights the use of specifically engineered guide RNAs and the Cas9 nuclease for the editing of virtually any desired genome, in addition to other applications such as imaging in live cells and the regulation of gene expression.



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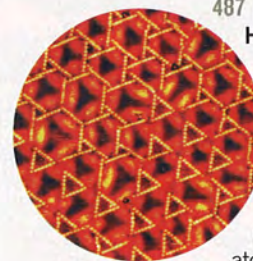
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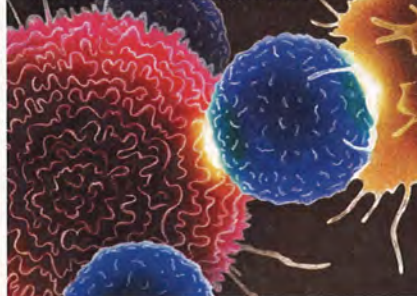
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ALLISON BRUCE

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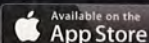
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