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A

Adaptation

Cas genes

CRISPR locus

Transcription and sRNAs maturation

Effector complex

Interference

B

Type I

Type II

Type III
**A**

- Diagram showing a process involving PAM with red annotations indicating Mismatch.

**B**

- Graph showing time (s) against torque (pN nm) with various markers indicating DNA length.

- Graph showing time (s) against torque (pN nm) with markers indicating PAM and Mismatch.

- Graph showing time (s) against torque (pN nm) with markers indicating StCas9.

**D**

- Diagram showing a process involving PAM with red annotations indicating Mismatch.

**E**

- Graph showing DNA length against time with markers indicating full R-loop and intermediate.

- Graph showing supercoiling against time with markers indicating intermediate.

**G**

- Diagram showing a process involving PAM with red annotations indicating Mismatch.

**H**

- Graph showing stable R-loops (%) against mismatches (bp) with markers indicating full R-loop.

**I**

- Graph showing time (s) against torque (pN nm) with markers indicating StCas9.
CRISPR RNP complex binding to DNA
Conformational changes upon R-loop formation

A

B

C

Evanescent field
CRISPR RNP complex binding to DNA
R-loop formation
Conformational changes upon R-loop formation

PAM