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Recent advances in the use of the CRISPR-Cas system for the detection of infectious pathogens

Key words: CRISPR-Cas, Diagnosis, Disease Detection, Infectious disease, Pathogen

Research Summary

In this review:

- ◆ discuss the discovery and development of the CRISPR-Cas system, summarize related analysis and interpretation methods;
- ◆ discuss the existing applications of CRISPR-based detection of infectious pathogens using Cas proteins;
- ◆ conclude by listing the challenges and prospects of the CRISPR-Cas system in the detection of pathogens.

Innovation points

- **Introduction** of the discovery and development of the CRISPR-Cas system.
- **Summary** of the signal detection platforms.
- **Summary** of the application of nucleic acid detection of pathogens.

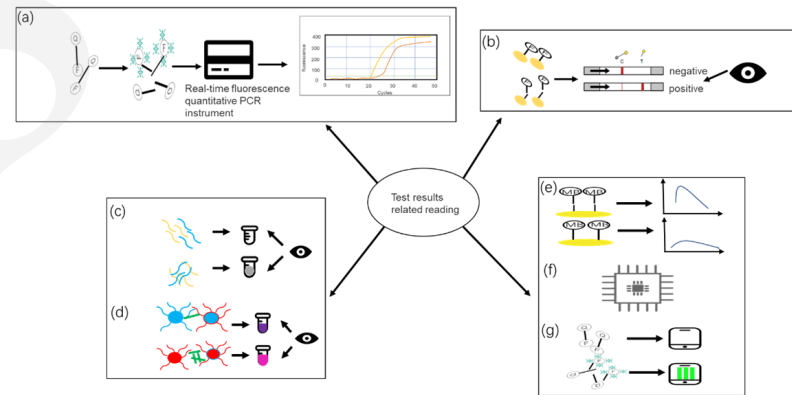
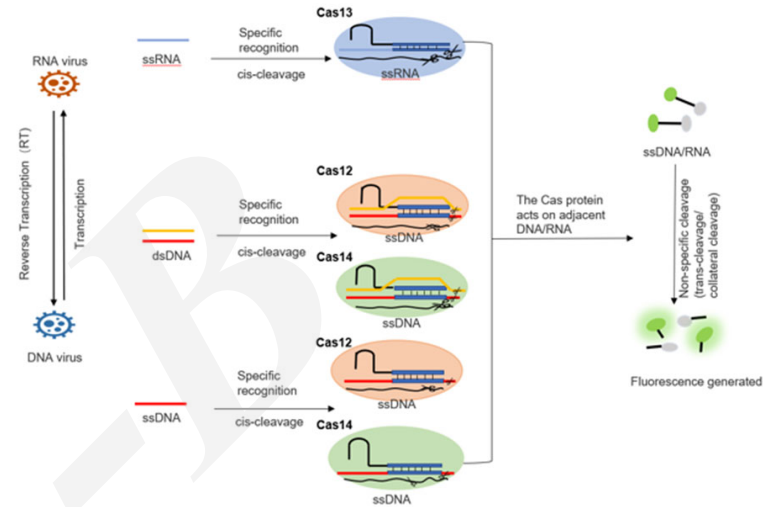


Table 1. Applications of Cas proteins for the detection of infectious pathogens