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Case Report

Biodefense Strategies Enhancing Global Health Security

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Abstract

Biodefense strategies play a crucial role in safeguarding public health and national security against biological threats, whether natural outbreaks or deliberate acts of bioterrorism. This research article explores the principles, components, challenges, and innovations in biodefense strategies. It examines preparedness measures, surveillance systems, response protocols, and international collaborations aimed at detecting, preventing, and mitigating the impact of biological emergencies. By analyzing historical incidents, current practices, and emerging technologies, the article highlights the importance of adaptive strategies and interdisciplinary approaches to strengthen global health security.

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