

Wild-Type Phages for *K. pneumoniae* Infections

Research Team

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- Target: *K. pneumoniae* infections
- Development stage: Basic research

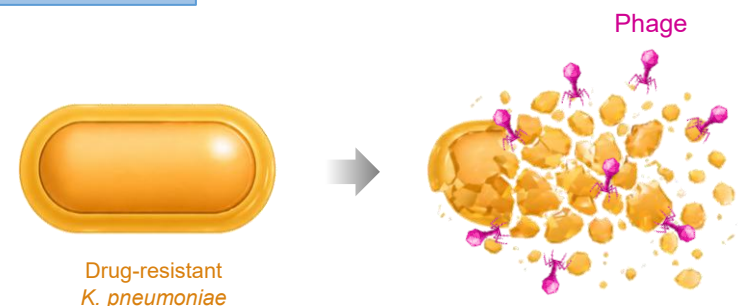
Research Concept & Technology

- Development candidate: Wild-type phages
- Collect and select wild-type phages active against *K. pneumoniae* and evaluate them as therapeutic candidates
- Evaluate phage cocktails and combination therapies based on host range, bactericidal activity, and the risk of resistance development
- Select and combine phage candidates to cover clinical isolates with diverse capsular types

Background & Unmet Need

- *K. pneumoniae* is a major cause of pneumonia, bloodstream infections, and urinary tract infections
- Capsular diversity and antimicrobial resistance can complicate treatment and infection control
- A new therapeutic platform capable of addressing diverse clinical isolates is needed

Project Overview



Development Plan

- Expand the target isolate panel and optimize lead phages
- Define quality control and safety evaluation requirements