

Phages for Selective Killing of Pathogenic Bacteria

■ Research Team

- Researchers: Kotaro Kiga et al.
- Affiliation: Department of Drug Development
- Target: A broad range of bacterial infections
- Development stage: Basic research; patent filing in preparation

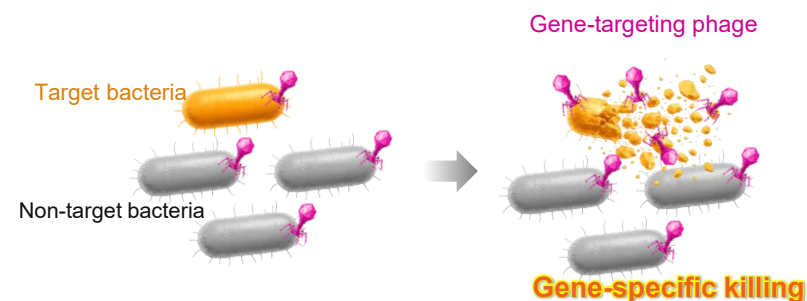
■ Research Concept & Technology

- **Development candidate: Genetically engineered phages**
- Build a novel phage-based bactericidal platform with enhanced selectivity for target bacteria
- Target bacteria with pathogenic or drug-resistant characteristics to provide an option that complements existing antibiotics
- Detailed design principles, target information, and evaluation data will be shared after IP protection is secured or under an NDA

■ Background & Unmet Need

- Existing antibiotic options are limited for some drug-resistant bacterial infections
- A new therapeutic platform is needed to selectively control target bacteria
- The goal is to advance next-generation phage therapy while minimizing disruption of the normal microbiota

■ Project Overview



■ Development Plan

- Prioritize patent filing
- Discuss potential collaborations in detail under an NDA (**Co-development partners sought**)