

Phages for Selective Control of Disease-Associated Gut Bacteria

Research Team

- Researchers: Kotaro Kiga et al.
- Affiliation: Department of Drug Development
- Target: Disease-associated gut bacteria
- Development stage: Basic research; patent filing in preparation

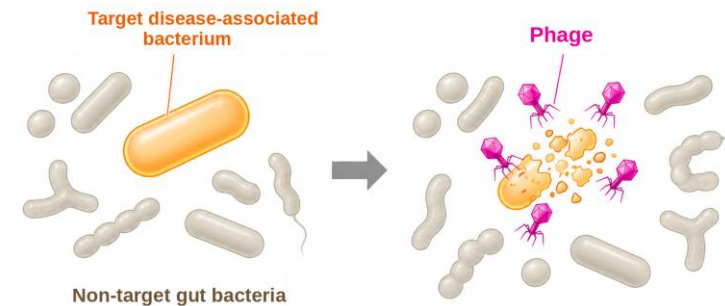
Research Concept & Technology

- **Development candidate: Wild-type phages**
- Select phages that infect disease-associated gut bacteria and selectively reduce the target population
- **Initial in vivo evaluation completed**
- Phage information and evaluation data will be shared after IP protection is secured or under an NDA

Background & Unmet Need

- Certain gut bacteria have been associated with intestinal diseases and chronic inflammation
- Nonselective elimination of bacteria with antibiotics may disrupt the normal gut microbiota
- The goal is to build a microbiota-modulation platform that selectively targets disease-associated bacteria

Project Overview



Development Plan

- Prioritize patent filing
- Define the target strain panel and evaluate microbiota effects, safety, and dosing strategies
- Discuss potential collaborations in detail under an NDA (**Co-development partners sought**)