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### **DESIGNING VIRUSES TARGETING ANY BACTERIA**

Introduction 2023

### **PHAGE 2.0**

# We are building a **VIRUS DESIGN PLATFORM**

using machine learning and AI to design custom phage to target & kill any kind of bacteria



# Managing Bacteria is a **\$550 Billion Dollar Opportunity**

Customers are demanding chemical free, safe, effective, and green ways to target and eliminate bacteria



### **Womens Health** \$5 Billion



**Methane Emissions** \$90 Billion



have many advantages over traditional chemicals

**KILLS ALL BACTERIA HIGH SPECIFICITY** LOW TOXICITY **NOVEL MODE OF ACTION** 

LOW DOSE

**TARGETS BIO-FILMS** 

**CHEMICAL FREE** 





In addition to being powerful alternatives to antibiotics, which are known to kill both bad and good bacteria

# **PHAGE** are Powerful Microbiome Editors



**APPLICATIONS:** 

1) Create niches for living therapeutics - increases engraftment

2) Remove microbes driving disease

3) Validate roles of strain or species in disease

Restore microbiome balance with introduction of natural or engineered microbe

We have known about the potential of phage for over **100 years** 

### Why are there no approved **PHAGE PRODUCTS?**

### **CHALLENGE FELIX SOLUTION**

PHAGE ARE HARD TO **ENGINEER** 

**FELIX PHAGE PLATFORM** allows any phage to now be simply engineered

PHAGE HAVE NARROW **HOST RANGES** 

FELIX PHAGE PLATFORM expands host ranges

PHAGE RESISTANCE RAPIDLY **EVOLVES** 

FELIX PHAGE PLATFORM identifies targets to delay & mitigate resistance

The power of synthetic phage realized by the

### **Felix PHAGE Platform**



Building a broad portfolio of IP that protects our platform technology as well as the assets it creates

## **Growing IP Portfolio**







### T **BUILD**

Felix **Provisional** 

### **BUILDING LIVING** SYNTHETIC PHAGE Ability to build any phage from DNA sequence