Presenters: Bianca Maled and Tanner Reeb
Other Members: Dax Earl, Adam Nighswander, Ted Samore, Mary Schultz, and Ayla Walter
Advisors: Dr. David Goulet and Dr. Richard Anthony
MFα activates mating pheromone response turning on expression of yeast His3 gene.

Lactate secreted by the yeast turns on expression of *E. coli* His3 gene.
Future Research

Transform Yeast and *E. coli*

Grow together under selective pressure

Characteristics of Interest
- Aggregate Size
- Synchronization
- Binding Affinity

Potential Outcomes
- Unstable Population
- Exosymbiont
- Dynamic Stability
Future Research

Transform Yeast and *E. coli*

Grow together under selective pressure

Characteristics of Interest
- Aggregate Size
- Synchronization
- Binding Affinity

Potential Outcomes
- Unstable Population
- Exosymbiont
- Dynamic Stability
Special Thanks to:

[Image] AIT Bioscience

Shannon Tieken (Biology Lab Technician)
Lou Johnson (Chemistry Lab Technician)
Tom Rogge (Facilities Manager)
Suzie Erwin (Chemistry Stock Room Technician)
Peter Coppinger (Associate Instructor of Applied Biology)
Interdisciplinary Research Collaborative (IRC) Program
Yale University (E. coli strain)