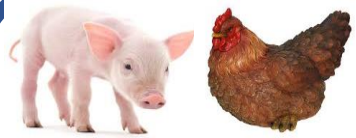




How do trigger events impact on microbial community homeostasis?

Can we restore gut microbial community homeostasis?

Is it possible to pre-emptively manipulate microbial communities to retain homeostatic control?



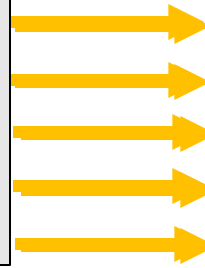
### Homeostasis

- Microbial richness
- High metabolic activity
- Mutual host benefits
- Host/ecosystem health



### Microbiome Influences

- Nutrient stress
- Chemicals
- Infection
- Antibiotics
- pH
- Temperature

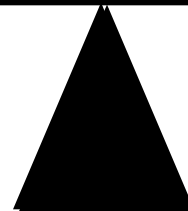


### Loss of Homeostasis

- Reduced microbial diversity
- Increased pathogenic species
- Reduced beneficial species
- Loss of functional redundancy

**Healthy Microbiome**

**Unhealthy Microbiome**



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**Project Graphical Abstract**