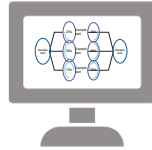


Develop a statistical method to quantify priority effects

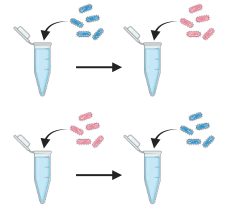
Specific Aim 1: New Modeling Approach

- Mathematical foundation
- Does the method work *in silico*?



Specific Aim 2: Experimental Validation

- Manipulation of species introduction
- Does the method work *in vitro*?



Specific Aim 3. When are priority effects strong on the human gut microbiota?

Influences of... Geographic regions?



Diets?



Age?



Health states?



Application to observational data!

