

Claire Duvallet

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Graduate Woman of Excellence

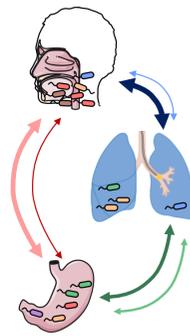
My Path to MIT



Involvement at MIT: Work and Community

Aspiration of oral microbes alters lung microbiome of aspirating children

Throat, stomach, and lung microbiomes are connected
 Lung microbiomes of aspirators are more similar to throat than stomach
 How is gastroesophageal reflux involved?



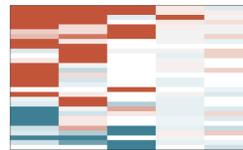
Universal patterns of disease-associated gut microbiome shifts

Meta-analysis within and across diseases
 Consistent and specific disease-associated shifts
 Core microbial responses to disease

Inflammatory bowel disease

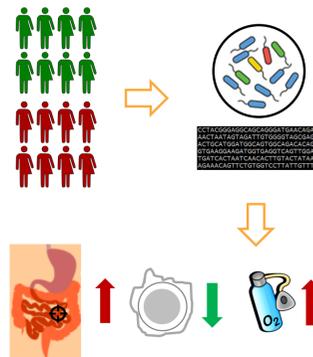


Colorectal cancer



Trait annotation tool to interpret microbiome studies

Studies yield lists of significant bacteria
 Methods to interpret results and generate hypotheses are disconnected
 Build a tool to consolidate existing and incorporate new knowledge



MIT REFS
 Resources for Easing Friction & Stress

BE REFS

Conflict management
 Student advocacy
 Rogue change makers

MIT BE
 BIOLOGICAL ENGINEERING

BE Grad Board

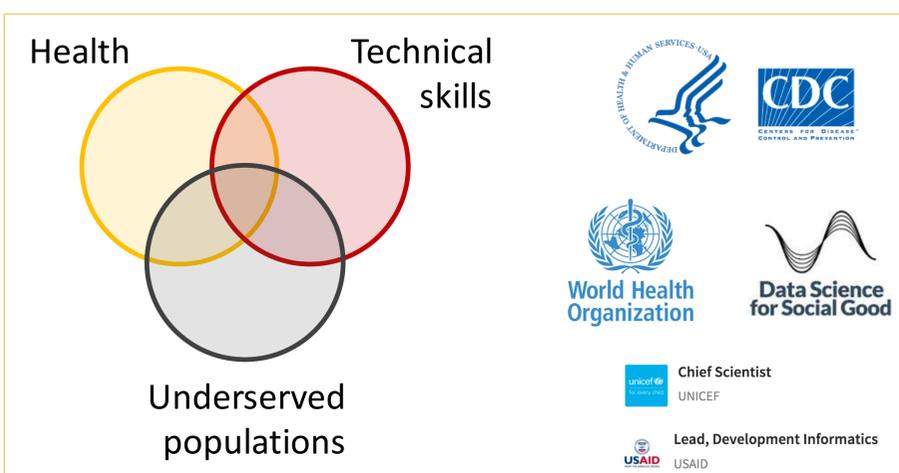
Diversity & inclusion
 Application assistance program
 Department values statement



Ultimate frisbee

MIT women's club team
 Undergraduate community
 Leadership and confidence

Vision



Guiding questions

“What’s the goal?”

Why are you doing what you’re doing?
 Use your time and energy thoughtfully

“What does that look like?”

Providing solutions is powerful

“What would happen if...?”

There are no rules in grad school