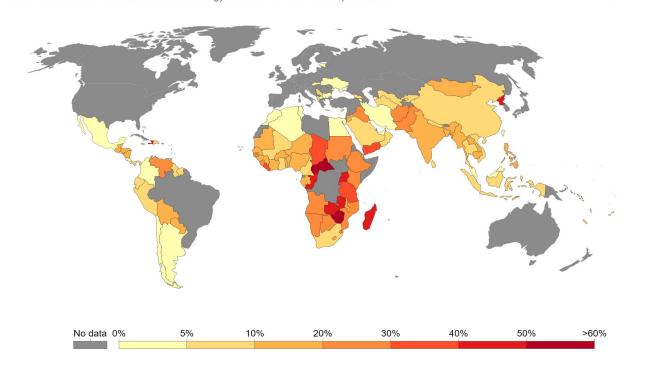


## Severe undernutrition prevalence

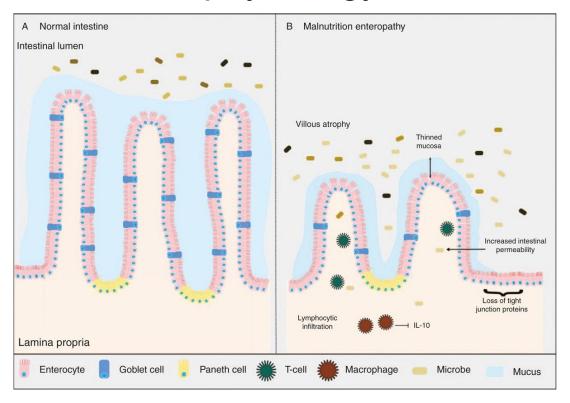
#### Share of the population that are undernourished, 2017

Share of individuals who have a habitual energy intake lower than their requirements.

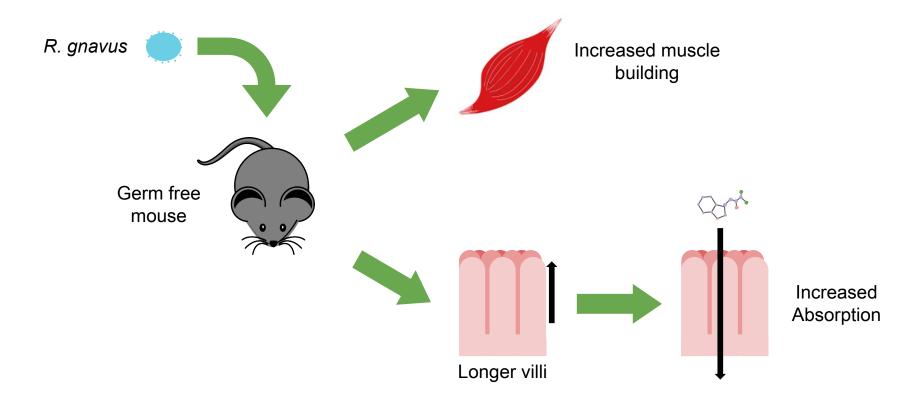




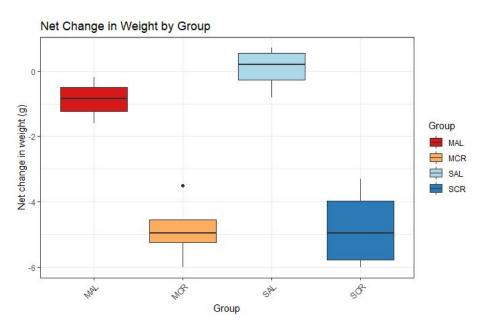
# Changes in intestinal physiology



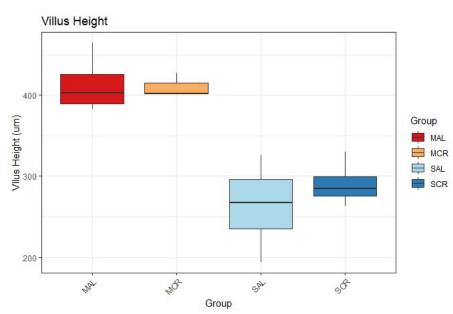
# Hypothesis



### Results



No change in weight



Longer villi, but no changes in absorption

### **Future directions**

- Further understanding *R. gnavus* biology
  - Host gene expression
  - Stem cell proliferation
- Mechanism of poor calorie absorption
- Other microorganisms