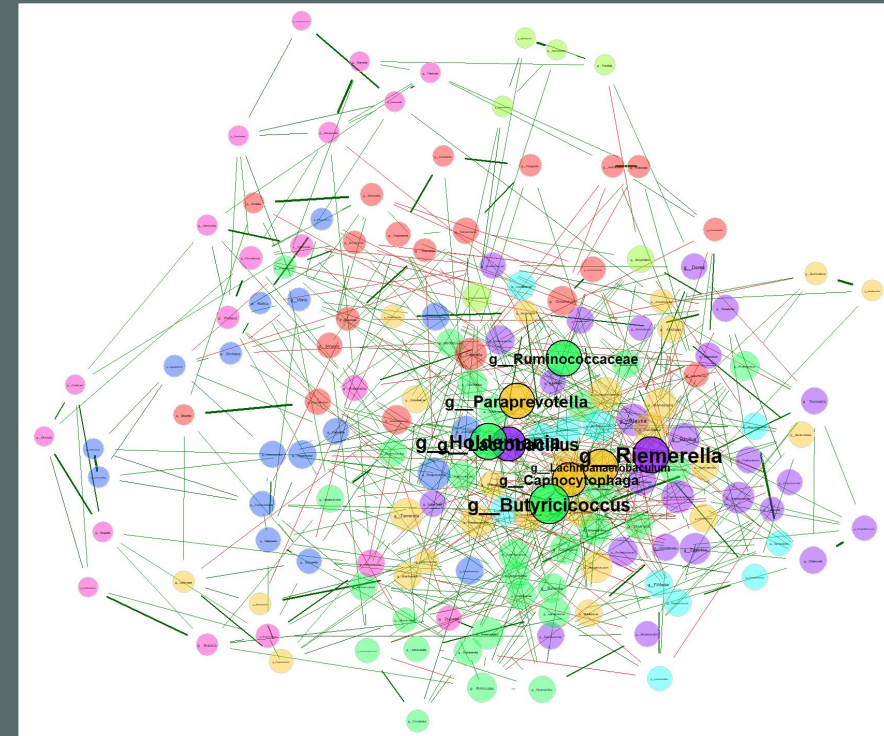


# Assessment of lateral gene transfer and dietary intake in IBD

Evan Sang, Etienne Nzabarushimana, Long Nguyen

- Lab focus: The gut microbiome and human health
- Big question: How does diet influence inflammatory bowel disease?
- Research focus: Does diet influence how often gut bugs exchange genes (LGT)? And does this change with IBD status?
  - Lateral Gene Transfer (LGT): transmission of genes between gut bug clades (without reproduction)
  - LGT rates and types (networks)



# Key Takeaways

## Hard Skills

- Cluster computing, bash script
- Various programs and models (new R packages, WAAFLE)
- More R data wrangling
- Importance of optimization and data management

## Soft Skills

- The importance of a story
- Resilience in research



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# Future Work

## Research Objectives

- Continue network analysis
- What genes are being exchanged?

## Limitations

- Time limit
- Utilizing new software and methodology
- Large dataset

## Future evolution

- Learn more techniques!
- Doer to thinker

