Group meeting January 14th 2026

Parties present:

David
Howard
Soroush
Alex
Ryan
Avril

Minutes taken by:

Soroush

Agenda:

- Introductions, orient group members & TA with regard to locations of team documents and applications to be used for the project (e.g., GitHub).
- Resolve any technological issues (e.g., remote server access, GitHub accounts).
- Discuss selected potential project topics (determine novelty/feasibility).
- Scan for usable datasets among selected potential project topics.
- Plan and delegate tasks for the upcoming week(s)?

Meeting minutes:

- House keeping
    - We need an agenda for each meeting
    - One person needs to take meeting minutes each week
    - The agenda needs to be on Github the night before the meeting
    - There needs to be enough information in the meeting minutes for her to prepare for the meeting. Essentially it needs to be detailed coming with questions is good too. Ex. Screen shot code
- GitHub
    - Agenda and notes need to be on it.
    - GitHub intro is on module 12
    - User names for GitHub will be added to canvas. (for instructor and TA)

- Email Claire
    - Email any time and she has a turn around of 1 to two days and if it takes longer email again. Same policy for Avril.
    - Won't answer too much on weekends

- Option 1 for group project (INF)
    - Influenza subtypes and how it affects the microbiome of the respiratory airway.
    - Influenza vs sars vs RSV and how affects the microbiome of the respiratory airway.
    - https://www.ncbi.nlm.nih.gov/bioproject/PRJNA482032/
        - This link did not have meta data
    - We need at least two type of influenza and SARS but it cant be compared
    - Its hard to use multiple data sets due to the way the data was gathered
    - You can rationally subdivide the variables to find something
    - **https://www.sciencedirect.com/science/article/pii/S2352340921010441**
        - This data set does have Meta data but it only has SARS CoV 2
    - https://www.ncbi.nlm.nih.gov/Traces/study/?query_key=2&WebEnv=MCID_696809baf5b4808d550b45c9&o=acc_s%3Aa
        - Another one about SARS-CoV-2
- Gut microbiome in relation to the severity of endometrial cancer
    - https://link.springer.com/article/10.1007/s00284-023-03361-6#data-availability
    - The issue with that it has been explored already
    - They might have done very basic microbiome diversity tests.

HYPERTENSION DATA

https://www.mg-rast.org/mgmain.html?mgpage=search&search=mgp84730

General Topics for Project

- Lung/Nose microbiome in relation to Influenza infection/susceptibility

https://www.sciencedirect.com/science/article/pii/S2542364917300195
https://academic.oup.com/cid/article/71/5/1195/5575907?login=false
Sequencing data: https://www.ncbi.nlm.nih.gov/bioproject/PRJNA482032/

https://www.sciencedirect.com/science/article/pii/S2352340921010441

- **Good metadata, focused on COVID**

https://link.springer.com/article/10.1186/s40168-023-01597-9#additional-information

- **No metadata, but diverse viruses**

https://academic.oup.com/cid/article/68/12/1993/5184302
https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0207898

- Gut microbiome in relation to the severity of endometrial cancer

https://link.springer.com/article/10.1007/s00284-023-03361-6#data-availability

- Gut microbiome composition and its relationship to sarcopenia.

https://www.nature.com/articles/s41598-021-84031-0
https://www.frontiersin.org/journals/nutrition/articles/10.3389/fnut.2024.1429242/full#h8
https://www.mdpi.com/2072-6643/11/7/1633

Action Items:

- Check out the PD dataset on canvas and look at micronutrients and hypertension
- Look at data from influenza paper and that is the main idea
- The goal for this week is to find data sets
- Compile data sets by Friday midnight