

2024-10-08

Meeting Agenda for Team 10

Chair: Burak Ozkan

1. Journal club

- Original paper attached to the data
- UJEMI paper (investigated effects of prescribed drugs on changes of the microbiota in MS patients with eczema)
- Other papers?
 - Made a Zotero
 - Added some background papers on MS
 - Specific species that increase in centenarians (≥ 80 YO)
 - Akkermansia; bifidobacterium, asitipies, christisenellaceae
 - What's different about the two cohorts, and what's leading to the differences?
 - Include in background
 - Probs reading on own time

2. Research question and aims from last meeting:

- What species of microbes are changing in PMS patients with an increase in age and severity?
 - *Do we want to narrow this down even further looking at only PMS?*
 - *eg- What species of microbes are changing in male/female PMS patients who reported smoking or have smoked?*
 - Any other suggestions?
- Revised aims: All aims should be written in the biological and functional aspect. Don't write with methods (will lose marks); information we are communicating
 1. Correlation between age and severity
 - Group between male and female patients
 2. Instating the impact of smoking on microbial diversity in the context of MS
 3. Correct for TD2 and smoking to get rid of factors that may impact microbial diversity (could be 2nd aim to eliminate confounding variables)
 4. Investigating the community composition of different age groups for those with and without PMS in terms of alpha and beta diversity
 5. Microbes researched can then be correlated to inflammation
 - Inflammatory microbes to tie into literature
 - Do the inflammatory microbes vary between patients with other variables
 6. Determine core microbes associated with MS severity

3. Chris please help us filter our dataset

- a. Boston; keep males and females (binary analysis later); PMS; duplicates
- b. Medications are limitations

4. What is the timeline for our project? Set project deliverable deadlines.

- discuss this if time permits

Action items

- divide tasks for manuscript and aims; filtering done by this week
- weekend = QIIME2 processing
- progress on QIIME2 processing is the top priority
- grading on what's included; adding marks not taking away
 - no tangents