

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

2. Research question and aims from last meeting:

- What species of microbes are changing in MS 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?
- Aims from previous meeting
 1. Correlation between age and severity
 - Group between male and female patients
 2. Correct for TD2 and smoking to get rid of factors that may impact microbial diversity (could be 2nd aim to eliminate confounding variables)
 3. Look at alpha and beta diversity (PCA plot, group by age colour severity) for each age group and different severity
 4. Microbes researched can then be correlated to inflammation
 - Inflammatory microbes to tie into literature
 - Do the inflammatory microbes vary between patients with other variables
 5. Random forest
 - *With less than 2 weeks until the proposal deadline plus midterms, do we think all 5 aims are attainable? If not, what is our focus?*

3. Chris please help us filter our dataset

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

- discuss this if time permits