Date: October 22, 2024

Present at meeting: Chris, Elijah, Poppy, Asha

Regrets: Caro, Burak

**From last week:**

* Proposal submitted
  + Everyone was satisfied with the submission
  + Evelyn/another TA will have it marked by next week, so we will go over that in the meeting Oct 29th
  + There is an option to re-submit the proposal with revisions based on feedback, can receive up to 5 marks

**Moving forward:**

* Working on Aims 1, 2, and 4, as Aim 3 requires outputs from 1 and 2
* **Allocation and summary of tasks:**
  + **Aim 1:** Look at Alpha and Beta diversity between 4 groups: healthy <55, healthy >55, pMS <55, pMS >55 to determine compositional changes across age groups
    - **Alpha diversity analysis and figures: Elijah**
    - **Beta diversity analysis and figures: Burak**
    - look at ALL metrics that you get from R (all alpha, beta weighted/unweighted, distance matrices, etc.)
  + **Aim 2:** same analysis as Aim 1, with the addition of smoking groups
    - **Alpha diversity analysis and figures: Poppy**
    - **Beta diversity analysis and figures: Caro**
    - Diversity and PCA plots to observe unique clustering for pMS/smoking groups
  + **Aim 4: Asha**
    - Start working on the skeleton of the code without the output from other aims
    - Core microbiome analysis of the groups that are present in Aim 3

**Deliverables for next week:**

* Alpha/Beta analysis and figures for Aim 1 and 2, core microbiome analysis for Aim 4
* All figures should be put into a powerpoint, sent to Chris before or day of meeting