

MICB 475 Team #9 Meeting 2 Agenda
2023-10-04

1. **New research question idea** → more specific research hypothesis instead of entirely exploratory
 - a. **Research question:** Which maternal factors influence infant microbial communities?
 - i. BMI, probiotics, age, etc. (pick ~3-5 factors we're interested in looking at)
2. We are hoping that we will notice a trend between mother's some of these factors and infant microbial diversity and/or composition, but if we don't, is that okay?
3. Confirming what some of the columns mean, and if Avril has access to past correspondence with students and original researchers
4. Confirming that we can match mom samples to baby samples
5. When we all use the same server, can we all log in at the same time?
6. First steps?

Notes on our research question idea:

- Looking at and comparing *composition* of infant microbiomes in each mother factor
- Looking at and comparing *diversity* of infant microbiomes between each mother factor class (low, med, high)
- Are any trends we noticed in composition and/or diversity of infant microbiomes affecting their health (cough, wheeze, rash etc)?
 - Eg. Microbiomes in infants from mothers in high BMI class have large pseudomonas populations whereas microbiomes in infants from mothers in low BMI class have much less pseudomonas pops - then compare their health indicators
 - **These trends may not exist** → will be guided by initial analysis