

Integrating Genetics and the Social Sciences 2022 Applied Microbiome Analysis Workshop Pre-Meeting Suggested Reading

Thank you for your interest in attending the applied microbiome analysis 3-hour workshop. We will be using Quantitative Insights into Microbial Ecology (QIIME) 2 (QIIME2.org) for our microbiome analysis, but please note this is not an official QIIME 2-sponsored workshop. Most official QIIME 2 workshops are several days, meaning the following suggested reading is especially important preparation to help you get the most out of a shorter workshop.

There is a lot of jargon, so please do not get discouraged if some terms are confusing. These concepts will be clarified further in the workshop.

Software Installation:

You will get more out of the workshop if you install QIIME 2 software *prior* to the workshop as it can be difficult to install. Installation directions can be found here <https://docs.qiime2.org/2022.8/install/> You can search the forum or post for help if you have any issues: <https://forum.qiime2.org/>. For this length workshop it is still possible to follow along using only a web browser (updated Chrome is recommended (<https://support.google.com/chrome/answer/95414>)).

Suggested reading:

- 1) Brief introduction to microbiome analysis
 - a. <https://www.illumina.com/areas-of-interest/microbiology/human-microbiome-analysis.html>
 - b. <https://www.illumina.com/areas-of-interest/microbiology/microbial-sequencing-methods/16s-rna-sequencing.html>
- 2) QIIME 2 overview
 - a. <https://docs.qiime2.org/2022.8/about/>
- 3) We will be using a command-line user interface for our analysis which means you will want to familiarize yourself with basic command line
 - a. <https://ubuntu.com/tutorials/command-line-for-beginners#1-overview>
 - b. <https://www.guru99.com/linux-commands-cheat-sheet.html> (basic only)
- 4) QIIME 2 glossary and core concepts
 - a. <https://docs.qiime2.org/2022.8/concepts/>
 - b. <https://docs.qiime2.org/2022.8/glossary/>

Thank you for your interest in attending the workshop. I am looking forward to teaching you about microbiome bioinformatics.

Sincerely,

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