

Module Name: Mammal Microbiomes

Institution: Boise State University

Principle Investigator(s): Amy Ulappa, amyulappa@boisestate.edu

Summary:

The aim of this module is to

- 1. Understand the relevancy of linking genomes to phenomes to understand physiology leveraging knowledge of collaborative research projects in the gut microbiome of herbivores
- 2. Demonstrate basic analyses of microbiota data
- 3. Determine if and how communities differ by variables of interest.
- 4. Perform various measurements characterizing microbial community diversity, composition, and structure

This module has been used in BSU's Mammalogy (ZOOL 421) course.

Contents:

Video: Microbiome Analysis R Tutorial

Tutorial: Microbiome TutorialPresentation: The Microbiome

Lab: Mammal Microbiome R Online Module

• Folder: Data

This folder contains the following:

o R File: Microbiome_tutorial.R

Data File: classified_rep_seqs.qza

Data File: feature_table.qzaData File: rooted tree.qza

Spreadsheet: moose-metadata

Notes:

- Video currently require a Boise State login. If you use this module, arrangements will be made for you to access it.
- Please contact the project PI or the GEM3 PUI Liaison for assistance in deploying this module in your course.