**BIO 475 – Lab Report Presentation *Guidelines & Rubric***

Comparisons of Mycorrhizal Properties from Two Host Species

**GUIDELINES**

The goal of this presentation is for your group to report to the class on content and concepts related to their lab (e.g. composition, host specificity, and symbioses), its experimental design, its data and t-test results, and on the overall interpretations of findings. Specifically, your group will craft an 8-12 slide PowerPoint presentation in which you begin by giving an overview of key lab-related content and concepts, followed by a site description and explanation of why you chose the two host species you did. This should be followed by an explanation of the experimental design, a summary of your data and t-test results, and interpretations of your findings (including inclusion of big picture answers from Questions 6 a-f from the Lab Overview) and overall conclusions. The presentation should take ≈ 15 minutes (12 for talk, 3 for questions) and all group members must participate. The following rubric should be used to guide your presentation, as it will be used to assess it. In addition, a self-evaluation follows and should be used by each group member and turned in at the class following your presentation. Feel free to speak with your instructor about any questions you may have about the rubric. Good luck!

**RUBRIC**

**Scale:** Coverage is 4 excellent, 3 very good, 2 adequate, 1 needs improvement, 0 inadequate

**Points Lab Content & Experiment**

\_\_\_\_\_ Informative background is given in which key ecological terms & concepts

relevant to the lab are accurately explained

\_\_\_\_\_ The study site is described and choice of host species is defended

\_\_\_\_\_ The experimental design is clearly described

\_\_\_\_\_ A comparison of sporocarps associated with each host species is given and is

accompanied by photos

\_\_\_\_\_ A table including descriptions of all ECM morphotypes was presented

\_\_\_\_\_ A graph that portrays total colonized root tip number for each host species is

provided and t-test results are provided and interpreted correctly

\_\_\_\_\_ A table portraying percent colonization per morphotype for each host species is

provided to allow for comparisons of ECM morphotype community composition

between hosts, including dominant and rare types, and of affinities; these are

clearly and creatively explained

\_\_\_\_\_ A comparison of total percent colonization by ECM for each host species is provided to allow for an explanation of how this variable may explain the degree of interaction between ECM and each host species

\_\_\_\_\_ A comparison of Shannon diversity between hosts is given and clearly explained

\_\_\_\_\_ Interpretations of Questions 6 a-f are integrated into overall conclusions (6 questions x 4 possible points = 24 total possible points).

**Points Presentation Structure & Delivery**

\_\_\_\_\_ PowerPoint slides were clearly visible throughout the presentation room

\_\_\_\_\_ All graphs and tables were legible and adequately explained

\_\_\_\_\_ PowerPoint was organized and logical

\_\_\_\_\_ Presenters were articulate, spoke clearly, were not rushed, and could easily be

heard throughout the presentation room

\_\_\_\_\_ All members maintained a professional demeanor during the presentation (e.g. no

gum chewing, hands in pockets, slouching, whispering to one another, etc.)

\_\_\_\_\_ Presentation length was at least 12 minutes.

**Points earned** (out of 84 possible) \_\_\_\_\_\_\_\_\_\_

**SELF EVALUATION Group** \_\_\_\_\_\_\_\_\_\_ **Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

As part of your assessment, you are expected to reflect on your own contributions to the group presentation. Use the scales for each question. Be objective and honest.

**Points**

\_\_\_\_\_ My contribution to colleting data, analyzing it, and interpreting the results was

 2 = equal to others, 1 = less than others, 0 = much less than others

\_\_\_\_\_ My contribution to developing the presentation content was

 2 = equal to others, 1 = less than others, 0 = much less than others

\_\_\_\_\_ My contribution to making the PowerPoint, including graphics used was

 2 = equal to others, 1 = less than others, 0 = much less than others

\_\_\_\_\_ I met consistently and on time with my group

 2 = equal to others, 1 = less than others, 0 = much less than others

\_\_\_\_\_ I cooperated with my group members and valued their input

 2 = equal to others, 1 = less than others, 0 = much less than others

**Points earned** (out of 10 possible) \_\_\_\_\_\_\_\_\_\_

**Total points earned** (out of 94 possible) \_\_\_\_\_\_\_\_\_\_