

**Miramar College, Summer 2019**  
**Biology 205 Microbiology**  
**Diversity Presentation Assignment & Topic List**

Each of you has been assigned a group of microorganisms (see the table at the end of this handout) from which you will choose a SINGLE SPECIES on which to report. For example, the student assigned group 1 should look over both *Rickettsia* and *Wolbachia* but present information specific to ONE species from this group. Because of the wide variety of microbes assigned, not every presentation will look the same. **As we study these groups in lecture, a sample presentation will be included as an example of what a presentation on that particular group will look like. These sample presentations are also available for viewing on the Course Website.**

The following are general guidelines for what to include:

**PowerPoint Presentation (30 points)**

Create a PowerPoint presentation with no more than 6 slides that takes 5 minutes or less to present. Images are excellent, but do not include links or videos. Include the following:

1. A title page with your name and the group you were assigned.
2. A taxonomic hierarchy of your organism (Domain → species), including the genus and species name and common name (if applicable). Note: spelling and italics count.
3. A summary of the SHARED group characteristics and the characteristics unique to your chosen organism (photos can be useful here).
4. A photograph of your organism and its physical characteristics (size, etc.).
5. For your particular species, describe **reproduction** (explaining details if the process is anything other than binary fission); **host cell** (if applicable); **habitat**; any special **metabolic functions** (autotrophy, unique heterotrophy, nutrient cycling, etc.); any **disease(s)** caused by your organism, including diagnosis, prognosis and treatments; or any other **interesting facts or characteristics**. Each of these categories may not be relevant to every presentation.

**Email this presentation to me as a PowerPoint attachment by midnight on July 9. If you use alternate software to create your presentation, you are responsible to make sure it will work properly with PowerPoint.**

**Questions & Answers (5 points)**

Create two questions that can be answered by students as they watch your presentation. Questions should be answerable in ONE SENTENCE or less. One question from each presentation will be modified and become part of the Diversity Presentation Quiz.

1. Make sure you answer these questions during your presentation, but do not include the questions as part of your presentation.

**Email the questions and their answers to me in the body of an email by midnight on July 9. Please do not send them as an attachment. Print the questions and their answers and turn them in during class on July 9 at 8:00 am.**

**References (5 points)**

Create a reference page which includes the complete bibliographic references for each source you used.

1. References for the presentation should follow MLA or similar bibliographic formatting.
2. Images do not need to be referenced.
3. You must use at least 3 sources (you do not have to use your textbook). Make sure your source material is reputable (this means no Wikipedia).

**Print this reference sheet and turn it in during class on July 9 at 8:00 am. To save paper, please print the references on the same piece of paper as the questions and their answers.**

**Presentations are due on July 9. Late assignments will be penalized (see details in the Course Syllabus).**

1. Electronic submissions can be turned in by midnight.
2. Printed references and questions & answers are due at 8:00 am.

**\*PLEASE NOTE: Unless prior arrangements have been made with your instructor, emailed assignments will not be accepted in lieu of assignments turned in in person**

Presentations are assigned as follows and will be done in numerical order.

Group	First Name	Last Name
16	Mussa	Adam
8	Yahya	Ahmed
15	Diana	Ardjmand
11	Annie	Bach
12	Christina	Camacho
18	Allison	Chilton
20	John	Forrest V
17	Henry	Fu
19	Nicholas	Gash
14	Kathleen	Houillion
5	Christina	Hulbert
22	Kim	Kennedy
21	Ashley	Louie
2	Alanna	Lyon
1	Derek	Mui
24	Lena	Nguyen
6	Hannah	Padhye
7	Erica	Reynoso
9	Julia	Sinsay
10	Naidelyn	Solis
23	Candice	Tapia
3	Amanda	Thiele
13	Mathew	Thomas
4	Khadija	Yusuf

#### BACTERIA & ARCHAEA

1. *Rickettsia* or *Wolbachia*
2. *Nitrobacter* or *Agrobacterium*
3. *Rhizobium*, *Azospirillum* or *Beijerinckia*
4. *Rhodospirillum* or *Ectothiorhodospira*
5. *Anabaena*, *Gloeocapsa* or *Chloroflexus*
6. *Deinococcus* or *Thermus*
7. Crenarchaeota
8. Euryarchaeota

#### EUKARYA

9. Bacillariophyta
10. Haptophyta
11. Dinoflagellata
12. Zygomycota
13. Archaezoa
14. Rhizopoda
15. Euglenozoa
16. *Strongyloides*
17. *Apicomplexa*
18. *Schistosoma*
19. *Taenia*, *Trichinella*
20. *Dracunculus*, *Enterobius*

#### VIRUSES

21. Papovaviridae
22. Hepadnaviridae
23. Picornaviridae
24. Orthomyxoviridae