

Miramar College, Summer 2010
Biology 205 Microbiology
Diversity Presentation Topic List & Assignment Details

You will be assigned a number that corresponds to one of the groups of organisms listed below on which you will do a **5 minute PowerPoint Presentation**. For example: **if you are assigned group 1, you should research *Rickettsia*, *Wolbachia* and *Beijerinckia* but present information specific to one member from this group**. Some assignments include specific genera; some include orders, classes or phyla, but in all cases, presentations should focus on a specific portion of the assigned group.

You may use your book as a reference, but you should also go to the library/online resources and do original research on individual organisms (beware of disreputable online sources). If you're unsure as to how to present the information, check out the "Sample Presentation" on the course website. Include the following information in your presentation where applicable.

Presentation (these topics may not fit every assignment)

1. A taxonomic hierarchy
2. Information on the life cycle or reproductive strategy as it applies to the entire group of organisms (information on "routine" binary fission does not need to be explained- simply stating it is fine).
3. A description of **one** or **two** key individual organisms:
 - a. life cycle (if different from above)
 - b. usual habitat
 - c. special metabolic or physiological functions
 - d. disease manifestation (if applicable)
 - e. any other interesting facts or characteristics
4. A Summary of the group characteristics and how it is different from other closely related organisms.
5. **Do not include links to external websites or videos as they take a long time to load and may not function properly from one computer to another.**

Questions

Two **potential Diversity Quiz** questions that can be converted BY ME into a multiple choice format and address general characteristics or special functions of the group of organisms as a whole OR a unique characteristic/function of a particular order, genus or species. You will answer these questions during your presentation, but will not actually include the questions/answers as part of your presentation (see below for more information). **You will be graded on the content and clarity of these questions. Don't forget to include a copy of these questions and their answers at the bottom of your bibliography.**

References/Bibliography

In addition to your presentation, you will be required to turn in a list of your references. Please use MLA formatting and check the course website for *Writing Resources* under the *Links of Interest* heading. This bibliography should be typed and should **include at least 3 sources in addition to your textbook.**

- **Presentations are to be emailed to me as a PowerPoint Presentation on the date shown in the course syllabus. The assignments must be turned in by 4:30pm.**
- **Bibliography is to be submitted in written form on the same date and should be properly formatted for full credit. Do not include your references in your presentation. Quiz questions and answers should also be included at the bottom of your printed Bibliography.**
- **Quiz questions & answers are to be submitted to me in electronic form, within the body of an email message, by 4:30pm on the same date. Do not have a slide that shows the questions with their answers.**

Regardless of the day of your presentation, all of your materials are due to me PRIOR TO the first set of presentations: policies concerning late assignments can be found in the Course Syllabus. The order of presentations will follow the table of assignments at the end of this handout.

The Groups will be assigned as follows:

- | | |
|--|---|
| 1. <i>Rickettsia</i> , <i>Wolbachia</i> , <i>Beijerinckia</i> | 13. Zygomycota, Ascomycota, Basidiomycota |
| 2. <i>Agrobacterium</i> , <i>Rhodospirillum</i> | 14. Lichens |
| 3. <i>Nitrobacter</i> , <i>Rhizobium</i> , <i>Azospirillum</i> | 15. Phaeophyta, Rhodophyta, Chlorophyta |
| 4. <i>Thiobacillus</i> , <i>Nitrosomonas</i> , <i>Zoogloea</i> , <i>Chromatium</i> | 16. Dinoflagellata |
| 5. <i>Beggiatoa</i> , <i>Thiomargarita</i> , <i>Azomonas</i> , <i>Azotobacter</i> | 17. Archaezoa, Rhizopoda, Euglenozoa |
| 6. <i>Helicobacter</i> , <i>Legionella</i> , <i>Clostridium</i> | 18. <i>Schistosoma</i> , <i>Taenia</i> , <i>Trichinella</i> |
| 7. <i>Anabaena</i> , <i>Gloeocapsa</i> , <i>Chlorobium</i> , <i>Chloroflexus</i> | 19. <i>Dracunculus</i> , <i>Enterobiuses</i> |
| 8. Mycoplasmatales, Bacillales | 20. Haptophyta |
| 9. Bacillariophyta | 21. Papovaviridae, Hepadnaviridae |
| 10. <i>Chlamydia</i> , <i>Treponema</i> | 22. Picornaviridae |
| 11. Crenarchaeota | 23. Flaviviridae |
| 12. Euryarchaeota | 24. Orthomyxoviridae |

Presentation Assignments

| last name | first name | presentation number |
|-----------------|------------|---------------------|
| CATIPON | GABRIEL | 18 |
| CHAN | MARK | 4 |
| CORRALES | TONI | 15 |
| DEL VILLAR | YURIDIA | 24 |
| EDWARDS-MOBLEY | MONIQUE | 19 |
| GODSHALL | KATHRYN | 5 |
| GRACHEVA | INNA | 12 |
| GRIEPENSTROH | LANCE | 13 |
| JANG | GIWON | 6 |
| JONES | GABRIELLE | 2 |
| LE | PETER | 3 |
| LERMA JONES | VANESSA | 8 |
| LEWIS | TERRI | 16 |
| MALIG | JASON | 7 |
| NGUYEN | GINA | 9 |
| NGUYEN | KAYLA | 22 |
| OTIS | MATTHEW | 11 |
| OWEN | JEFF | 14 |
| PANOWSKI | JONAH | 23 |
| SICAT-SANTA ANA | MARISSA | 17 |
| SWEENEY | LEAH | 10 |
| TANG | David | 1 |
| VU | VAN | 20 |
| YEMANE | MAHTA | 21 |