

Week 3 Discussion: Culturing Microorganisms

Required Resources

Read/review the following resources for this activity:

- Textbook: Chapters 7, 8
- Weekly Concepts

Initial Post Instructions

Class, let's discuss the categories that organisms can be grouped in based on their nutritional requirements. Find one microorganism, either a prokaryote or eukaryote, and describe the environment in which it lives. (Does it live underwater? On skin? In soil? Give as many details as possible!) To complete your initial post, you will then use the vocabulary we discussed to classify it based on its nutritional needs and environmental requirements. (Is it a halophile? A chemoheterotroph? Use as many terms as you can!)

Follow-Up Post Instructions

For your second post, reply to your peer's post to propose the best way to culture their microorganisms with explanation. Explain how the conditions and culture media you choose will meet the nutritional and environmental needs of the microorganism. (Is there a particular temperature you should use? Is CO₂ needed? What medium would be best?) Respond to at least one peer or the instructor. Further the dialogue by providing more information and clarification.

Writing Requirements

- Minimum of 2 posts (1 initial & 1 follow-up)
- Minimum of 2 sources cited (assigned readings/online lessons and an outside source)
- APA format for in-text citations and list of references