

Unit 1: Module 1

Which microbiology pioneer helped to develop a series of postulates used to characterize the causative agent of a particular disease?

☐ Carl von Linne (Linnaeus)

☐ Robert Hooke

☐ Louis Pasteur

☒ Robert Koch

☐ Antonie van Leeuwenhoek

Which cell type contains membrane-bound cellular organelles and has a cell wall made up of chitin?

☐ Helminths

☐ Protozoa

☐ Bacteria

☒ Fungi

☐ Algae

Which field of microbiology involves the relationships between domesticated plants and animals?

☐ Public Health Microbiology and Epidemiology

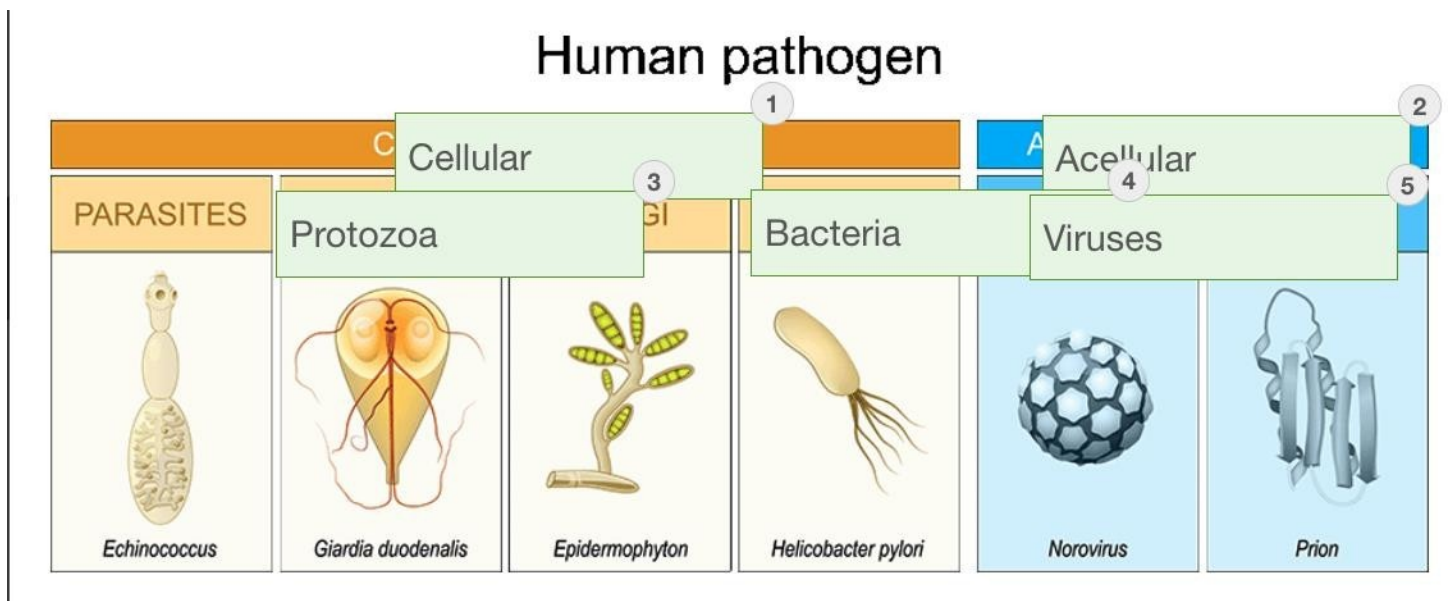
☐ Environmental Microbiology

☐ Industrial Microbiology

☐ Medical Microbiology

☒ Agricultural Microbiology

Algae belong to the category of microorganisms.



An would be involved in studying the effects of a specific microorganism's impact on the rainforest.

An would safeguard the water supply in a particular area.

An would study the body's defenses against different disease-causing microbes.

Ignaz Semmelweis required medical students to in order to protect mothers giving birth.

Complete the statements using the correct terms.

1. When genus and species names are handwritten, they must always be .
2. The first letter of the genus name is always capitalized, and the first letter of the species name is .
3. The name can be abbreviated after it has been stated.

What area of microbiology utilizes biotechnology to ensure the safety of food and water resources?

☐ Public Health Microbiology and Epidemiology

☐ Medical Microbiology

☒ Industrial Microbiology

☐ Agricultural Microbiology

☐ Environmental Microbiology

What would a medical microbiologist do?

- ☒ Examine factors that cause microorganisms to cause disease
- ☐ Study crops and the microorganisms that impact their growth
- ☐ Monitor the spread of a disease after an outbreak
- ☐ Investigate the impact of microorganisms on the earth's crust
- ☐ Study the protective cells and substances in the human body in response to infection

Which are true about taxonomy? Select all that apply.

- ☐ Taxonomy is the assignment of scientific names.
- ☒ Taxonomy is the science of classifying living organisms into categories.
- ☐ Taxonomy is like learning a new language.
- ☒ Taxonomy was developed by Carl von Linne (Linnaeus).
- ☐ Taxonomy is based on the different areas where organisms live.

According to the binomial system, what does the scientific name of any living organism have? Select all that apply.

- ☒ A combination of the generic (genus) and species name
- ☐ A combination of the generic (genus) and family name
- ☒ Both names italicized when in print or underlined when written by hand
- ☐ Lowercase first and second names
- ☒ A capitalized first name and lowercase second name