

**BACTERIA** - a single cell organisms. Well-known examples of bacteria include salmonella and staphylococcus bacteria.

**Nomenclature of Bacteria** - Refers to naming of bacteria and other organism which are named according to the binomial system.

### TYPES OF BACTERIA

**Spherical:** Bacteria shaped like a ball are called cocci, and a single bacterium is a coccus.

**Rod-shaped:** These are known as bacilli (singular bacillus). Some rod-shaped bacteria are curved. These are known as vibrio.

**Spiral:** These are known as spirilla (singular spirillus). If their coil is very tight they are known as spirochetes.

### Bacteria Structure

**Capsule** - some bacteria have this third protective covering which is made up of polysaccharides; most important role is to keep the bacterium from drying out and protect it from phagocytosis or engulfing by larger microorganisms.

**Cell wall** - each bacterium is enclosed in rigid cell wall that gives its shape and surrounds the cytoplasmic membrane, protecting it from the environment; the strength of the wall is responsible from keeping the cells from bursting when there's a large difference in osmotic pressure between cytoplasm and environment.

**Plasma membrane** - a layer of phospholipids and proteins that encloses the interior of the bacterium, regulating the flow of materials in and out of the cell.

**Nucleoid** - region of cytoplasm where DNA is located.

**Cytoplasm** - this is where the functions of cell growth, metabolism, and replication are carried out.

**Ribosomes** - microscopic factories found in all cells; translate genetic code from the molecular language of nucleic acid to that of amino acids - the building blocks of proteins which are the molecules that performs the functions of cells and living organisms.

**Flagellum** - hairlike structure that provide a means of locomotive function for those bacteria that have them; helps the bacteria to move away from toxic chemicals and towards nutrients.

**Pilus** - hairlike projections (shorter) that assists the bacteria in attaching to other cells and surfaces.

### Bacteria Feeding

**Heterotrophic bacteria, or heterotrophs,** get their energy through consuming organic carbon. Most absorb dead organic material, such as decomposing flesh. Some of these parasitic bacteria kill their host, while others help them.

**Autotrophic bacteria ( autotrophs)** make their own food, either through either: photosynthesis, or chemosynthesis.

**Photoautotrophs** Bacteria that use photosynthesis

**Chemoautotrophs** Those that use chemosynthesis These bacteria are commonly found in ocean vents and in the roots of legumes,

### How do bacteria reproduce?

**Binary fission** the bacterium, which is a single cell, divides into two identical daughter cells .- begins when the DNA of the bacterium divides into two (replicates)

### Bacterial Diseases in Humans

#### Diseases of the Upper Respiratory Tract

1. **Streptococcal diseases (strep throat):** are caused by Streptococcus pyogenes.

2. **Diphtheria** is caused by a prophage-harboring strain of *Corynebacterium diphtheriae*. As dead tissue accumulates, a pseudomembrane forms in the throat or nasopharynx.

3. **Pertussis (whooping cough)** is caused by *Bordetella pertussis*

4. **Bacterial meningitis** is an inflammation of the membranes surrounding the brain and spinal cord. The infection can be caused by *Neisseria meningitidis*, *Streptococcus pneumoniae*, or *Haemophilus influenzae*.

#### Diseases of the lower Respiratory Tract

1. **Tuberculosis (TB)** is caused by the acid-fast bacilli of *Mycobacterium tuberculosis*.

2. **"Typical"** bacterial pneumonia is primarily caused by *Streptococcus pneumoniae* (pneumococcal pneumonia), *Haemophilus influenzae*, *Staphylococcus aureus*, and *Klebsiella pneumoniae* are other species.

3. **"Atypical"** bacterial pneumonia can be caused by *Mycoplasma pneumoniae*

#### Foodborne and Waterborne Bacterial Diseases

1. **Botulism** is a severe form of *food poisoning* caused by nerve toxins produced by *Clostridium botulinum*.

2. **Salmonella Typhi** is an acid-resistance bacillus that invades the blood. The infection is characterized by fever, abdominal pain, rose spots, lethargy, and delirium. - Typhoid vaccines are available and chloramphenicol is the antibiotic of choice.

3. **Vibrio cholerae** infects the small intestines, producing an enterotoxin causing profuse watery diarrhea and vomiting.

**Anthrax** is an acute infectious disease caused by *Bacillus anthracis*.

**Clostridium tetani** is the causative agent of tetanus.

**Leptospirosis** is a disease spread from animals to humans (zoonosis) by *Leptospira interrogans*. Infected individuals have flu-like symptoms.

**Syphilis** caused by *Treponema pallidum*. Primary syphilis is characterized by a chancre.

**Gonorrhea** caused by *Neisseria gonorrhoeae* women may have symptoms of vaginal and urethral discharge of pus and burning during urination.

### The Viruses

**Viruses have** - helical - icosahedral - Complex Symmetry.

**Viral Replication and Its Control** 1. Attachment 2. Penetration 3. Uncoating 4. Biosynthesis 5. Assembly 6. Release

# Section 2review Modern Biology Answers

**AW Rasmussen**



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## **Table of Contents Section 2review Modern Biology Answers**

1. Understanding the eBook Section 2review Modern Biology Answers
  - The Rise of Digital Reading Section 2review Modern Biology Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 2review Modern Biology Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Section 2review Modern Biology Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 2review Modern Biology Answers
  - Personalized Recommendations
  - Section 2review Modern Biology Answers User Reviews and Ratings
  - Section 2review Modern Biology Answers and Bestseller Lists

5. Accessing Section 2review Modern Biology Answers Free and Paid eBooks
  - Section 2review Modern Biology Answers Public Domain eBooks
  - Section 2review Modern Biology Answers eBook Subscription Services
  - Section 2review Modern Biology Answers Budget-Friendly Options
6. Navigating Section 2review Modern Biology Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Section 2review Modern Biology Answers Compatibility with Devices
  - Section 2review Modern Biology Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 2review Modern Biology Answers
  - Highlighting and Note-Taking Section 2review Modern Biology Answers
  - Interactive Elements Section 2review Modern Biology Answers
8. Staying Engaged with Section 2review Modern Biology Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 2review Modern Biology Answers
9. Balancing eBooks and Physical Books Section 2review Modern Biology Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 2review Modern Biology Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Section 2review Modern Biology Answers
  - Setting Reading Goals Section 2review Modern Biology Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section 2review Modern Biology Answers
  - Fact-Checking eBook Content of Section 2review Modern Biology Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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