

**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 micro-organisms.

**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

**Daniela Niemeyer**



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manual contains three model exams with answers and explanations plus a detailed review of college level biology that covers all AP exam topics Practical advice is also given for the essay question and short answer questions      **AP - Biology**

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to Prepare for the Advanced Placement Examination in Biology Gabrielle I. Edwards, 1982 Discusses how to prepare for short answer and essay questions and includes an outline of the subject matter and model exams      A Jungian Analysis of Toxic

Modern Society Erik Goodwyn, 2024-08-08 Using evidence from anthropology neuroscience psychiatry analytical psychology and evolutionary biology within this book Dr Erik Goodwyn explores the current cultural psyche and how elements of modern society are contributing to the current loneliness epidemic Despite tremendous advances in technology developed countries are more anxious depressed suicidal and addicted today than we were 100 years ago Why Research from many fields of study show that loneliness has become an epidemic in the industrialized world causing very real medical consequences such as addiction depression anxiety and suicide all things which have been on the rise for decades And yet because of various historical philosophical and economic reasons we do not nurture traditional cultural ways of satisfying these instincts This book will explore the idea that stopping the rising misery will not only require socioeconomic changes but will require a profound cultural change Only then will we be able to stop the slow starvation of social belonging archetypal narratives rituals spirituality and images as vessels of meaning This will be an insightful read for depth psychologists and scholars of analytical psychology as well as health care providers therapists sociologists and those with an interest in cross cultural studies      Modern Biology, 1991 Albert Towle, 1989      Cells, 1997      Mathematics Catalog 2005 Neil Thomson, 2004-10

Genetics Daniel L. Hartl, Elizabeth W. Jones, 2009 This handbook covers all dimensions of breast cancer prevention diagnosis and treatment for the non oncologist A special emphasis is placed on the long term survivor      California Quarterly of Secondary Education, 1925      Biology Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02

**Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008      The Living Environment Rick Hallman, 2001

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