

Campbell Biology  
Chapter 6: A Tour of the Cell

A1: The Fundamental Units of Life

- Cells are the fundamental unit of life, just as atoms are the fundamental unit of chemistry
- The cell is the simplest collection of matter that can be alive, so all organisms are made up of cells
- Many organisms are multicellular with interdependent specialized cell systems that work together
- The cell is the basic unit of structure and function
- Cells have been modified and have evolved throughout history, albeit they share common features

A1: Biologists use Microscopes and the Tools of Biochemistry to Study Cells

- Cells need to be studied via instruments because they cannot be seen by the naked eye

A2: Microscopy

- Microscopes and cells were first observed during the Renaissance
- **Light microscopes (LM)** are microscopes in which visible light is passed through the specimen and then through glass lenses; the lenses refract the light so the image of the specimen can be seen
- Magnification, resolution, and contrast are three important parameters in microscopy
- Magnification is the ratio of an object's image size to its real size
  - Light microscopes magnify objects 1000 times, so additional details can be seen
- Resolution is a measure of the clarity of the image; it is the minimum distance two points can be separated and still appear as such
  - Light microscopes cannot resolve detail finer than 200 nanometers
- Contrast is the difference in brightness between the light and dark areas of an image
  - Labelling cell components/staining helps to enhance contrast
- Resolution limited the study of **organelles**, which are membrane-enclosed structures within eukaryotic cells
- The **electron microscope (EM)** focuses a beam of electrons through a specimen or onto its surface
  - Resolution is inversely related to wavelength of electrons/light
  - Most modern electron microscope can resolve structures to about 2 nm
- The **scanning electron microscope (SEM)** is used for studying the topography of a cell
  - The electron beam scans the surface of the sample coated in gold, which excites the electrons, which is further detected by a machine that translates the excitement to a three-dimensional image
- The **transmission electron microscope (TEM)** is used to study the internal structure of cells
  - An electron beam is aimed through a thin section of the specimen, just like light through a slide
  - The specimen is stained with atoms of heavy metals, which attach to cellular structures, which changes the cellular density of some areas
  - The electrons are dispersed more in the denser regions, so the pattern of transmitted electrons is displayed as an image
- Both SEM and TEM use electromagnets to bend the paths of the electrons to create an image
- Electron microscopes allow subcellular components to be discovered, but only light microscopes can observe living cells, and specimen preparation can introduce structures that are not original
- Labelling cellular structures with markers has made it possible to see greater detail in light microscopes
- Confocal and deconvolution microscopy produce sharp three-dimensional images
- Super-resolution microscopy refers to the techniques and labels that allows researchers to break the resolution barrier
- Cytology is the study of cell structure, and biochemistry is the study of chemical processes of cells

# Ap Biology Chapter 6 Notes

**Mark Anestis, Kellie Ploeger Cox**



## Ap Biology Chapter 6 Notes:

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**An Astrobiology Strategy for the Search for Life in the Universe** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Astrobiology Science Strategy for the Search for Life in the Universe, 2019-04-20 Astrobiology is the study of the origin evolution distribution and future of life in the universe It is an inherently interdisciplinary field that encompasses astronomy biology geology heliophysics and planetary science including complementary laboratory activities and field studies conducted in a wide range of terrestrial environments Combining inherent scientific interest and public appeal the search for life in the solar system and beyond provides a scientific rationale for many current and future activities carried out by the National Aeronautics and Science Administration NASA and other national and international agencies and organizations Requested by NASA this study offers a science strategy for astrobiology that outlines key scientific questions identifies the most promising research in the field and indicates the extent to which the mission priorities in existing decadal surveys address the search for life s origin evolution distribution and future in the universe This report makes recommendations for advancing the research obtaining the measurements and realizing NASA s goal to search for signs of life in the universe

**Freud, the Reluctant Philosopher** Alfred I. Tauber, 2010-07-01 Freud began university intending to study both medicine and philosophy But he was ambivalent about philosophy regarding it as metaphysical too limited to the conscious mind and ignorant of empirical knowledge Yet his private correspondence and his writings on culture and history reveal that he never forsook his original philosophical ambitions Indeed while Freud remained firmly committed to positivist ideals his thought

was permeated with other aspects of German philosophy Placed in dialogue with his intellectual contemporaries Freud appears as a reluctant philosopher who failed to recognize his own metaphysical commitments thereby crippling the defense of his theory and misrepresenting his true achievement Recasting Freud as an inspired humanist and reconceiving psychoanalysis as a form of moral inquiry Alfred Tauber argues that Freudianism still offers a rich approach to self inquiry one that reaffirms the enduring task of philosophy and many of the abiding ethical values of Western civilization

*Evolutionary Creation* Denis O. Lamoureux, 2008-06-15 In this provocative book evolutionist and evangelical Christian Denis O Lamoureux proposes an approach to origins that moves beyond the evolution versus creation debate Arguing for an intimate relationship between the Book of God s Words and the Book of God s Works he presents evolutionary creation a position that asserts that the Father Son and Holy Spirit created the universe and life through an ordained and sustained evolutionary process This view of origins affirms intelligent design and the belief that beauty complexity and functionality in nature reflect the mind of God Lamoureux also challenges the popular Christian assumption that the Holy Spirit revealed scientific and historical facts in the opening chapters of the Bible He contends that Scripture features an ancient understanding of origins that functions as a vessel to deliver inerrant and infallible messages of faith Lamoureux shares his personal story and his struggle in coming to terms with evolution and Christianity Like many he lost his boyhood faith at university in classes on evolutionary biology After graduation he experienced a born again conversion and then embraced belief in a literal six day creation Graduate school training at the doctoral level in both theology and biology led him to the conclusion that God created the world through evolution Lamoureux closes with the two most important issues in the origins controversy the pastoral and pedagogical implications How should churches approach this volatile topic And what should Christians teach their children about origins

*State of the World* ,1999     **The Publisher and Bookseller** ,1930 Official organ of the book trade of the United Kingdom     *Scientific American* ,1910     *The Bookman* ,1892     *Latin Notes* ,1926

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