

LAB TOPIC 3A

Structure and Function of Living Cells

Adapted from: Pong, William, and Steve. *Laboratory Manual for General Biology* (2nd Edition).

Laboratory Objectives

After completing this structure, you will be able to:

1. Define cell, cell theory, prokaryotic, eukaryotic, nucleus, cytoplasmic stream, organelle, mitochondrion, cytoplasmic streaming, and pH, vesicles.
2. List three essential features shared by all cells.
3. Describe the similarities and differences between prokaryotic and eukaryotic cells.
4. Identify the cell parts described in this structure.
5. State the function for three cell parts.
6. Classify cells according to their size and animal cells.
7. Diagram the organization presented in this lab in the proper sequence.

Introduction

Structurally and functionally, all life has some common features. All living organisms are composed of cells. The development of life begins with simple molecules that combine to form cells and cells work together to form tissues. The smallest living units, "cells" however their structure extended from the small molecules that combine to form the cells to the tissues, the cell theory emerged. This theory has three principles (1) All organisms are composed of one or more cells, (2) the cell is the basic living unit of organization, and (3) all cells arise from preexisting cells.

Although cells vary in organization, size, and function, all share some structural features. (1) All possess a plasma membrane defining the boundary of the living material (2) all contain a region of high concentration and, which serves genetic information, and (3) all contain cytoplasm, everything within the plasma membrane that is not part of the nucleus.

Lab Manual Perry Morton Perry Community College

SJ Ball



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