
Mastering Biology Chapter 4

Which of the following choices correctly matches a tool and its proper application?

- a. light microscopy to study the internal structure of cilia
- b. scanning electron microscopy (SEM) to study the detailed movements of living cells
- c. transmission electron microscopy (TEM) to study the surfaces of preserved cells
- d. cell fractionation to study the function of specific organelles
- e. transmission electron microscopy (TEM) to study the movement of organelles within a living cell - answerd. cell fractionation to study the function of specific organelles

Which of the following clues would tell you if a cell is prokaryotic or eukaryotic?

- a. whether or not the cell carries out cellular metabolism
- b. whether or not the cell contains DNA
- c. the presence or absence of ribosomes
- d. whether or not the cell is partitioned by internal membranes
- e. the presence or absence of a rigid cell wall - answerd. whether or not the cell is partitioned by internal membranes

Prokaryotic cells lack any internal membranous compartmentalization.

Part A - Organelles of the endomembrane system

The various parts of the endomembrane system serve different functions in the cell. In this activity, you will identify the roles of each part of the endomembrane system.

Drag each function to the appropriate bin. - answerSmooth ER: Lipid synthesis, Calcium ion storage, Poison detoxification

Rough ER: Protein synthesis

Golgi apparatus: Protein modification and storage, Cisternal maturation

Lysosomes: Autophagy, Macromolecule digestion

The endomembrane system is critical for the synthesis, processing, and movement of proteins and lipids in the cell. The smooth ER functions mainly in lipid synthesis and processing. The rough ER is the site of secretory protein synthesis. These proteins are processed further in the Golgi apparatus, from where they are dispatched in vesicles to the plasma membrane. Lysosomes, whose enzymes and membranes are made and processed by the rough ER and Golgi apparatus, function in the hydrolysis of macromolecules, such as in phagocytosis and autophagy.

Part B - Sites of protein synthesis

All proteins are synthesized by ribosomes in the cell. Some ribosomes float freely in the cytosol, while others are bound to the surface of the endoplasmic reticulum. Most proteins made by free ribosomes function in the cytosol. Proteins made by bound

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Lei Shi



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