Mitochondria [1]

By: Guerrero, Anna  Keywords:  Organelles [2]

Object is a digital image of a mitochondrion. There are two boxes, one atop of the other. In the top box is the mitochondrion with a scale bar that indicates that the organelle is 1 micrometer in length. The image depicts the mitochondrion’s outer membrane, which is roughly ovoid in shape and is colored a transparent orange to reveal the inner membrane within, colored red. The top left quarter of the outer membrane and the inner membrane are cut away to reveal the cristae. In the bottom box is a round animal cell, colored teal. A scale bar indicates that the cell is 100 micrometers in diameter. A portion of the cell is cut away to reveal the nucleus within, two orange mitochondria that are smaller than the nucleus, and several other organelles.

Mitochondria are organelles found in the cytoplasm of eukaryotic cells. They are composed of an outer membrane and an inner membrane. The outer membrane faces the cellular cytoplasm, while the inner membrane folds back on itself multiple times, forming inner folds, called cristae. The space between the two membrane layers is called the intermembrane space, and the space within the inner membrane is called the matrix.

Subject


Topic


Publisher

Arizona State University. School of Life Sciences. Center for Biology and Society. Embryo Project Encyclopedia.

Rights

Copyright Arizona Board of Regents Licensed as Creative Commons Attribution-NonCommercial-Share Alike 3.0 Unported (CC BY-NC-SA 3.0) http://creativecommons.org/licenses/by-nc-sa/3.0/

Format

Graphics [9]