## Endosymbiotic theory and others



Endosymbiotic Theory1. Mitochondria formed through the endosymbiosis of a proteobacteria

2. Chloroplast formed from the endosymbiosis of a cyanobacteriaPrimary EndosymbiosisWhen a proteobacteria or a cyanobacteria is engulfed by a eukaryote ONENDOSYMBIOTIC THEORY AND OTHERS SPECIFICALLY FOR YOUFOR ONLY\$13. 90/PAGEOrder NowSecond EndosymbiosisIs when a eukaryote is engulfed by anther eukaryoteEvidence of Endosymbiosis-Mitochondria and chloroplast have own DNA that is circular and led scientists to believe that they were separate organisms at one point.

-Sequence of that DNA is similar to bacteria

-They also have double membranes which shows evidence of being engulfed -New mitochondria and plastids are formed only by a process similar to binary fission

-Internal structure and biochemistry of plastids is similar to

cyanobacteriaWhat are some key evolutionary changes in the eukaryote cell that allowed for endosymbiosis? 1. Protective cell wall is lost

- 2. Plasma membrane infold to increase SA
- 3. Cytoskeleton is formed
- 4. Internal membranes with ribosomes formed
- 5. DNA enclosed in a membrane
- 6. Microtubles form flagella enabling movement

Cytokskeleton was added

Internal membrane (allowed them to specialize)

Lysosome

## CFUColony forming units

https://assignbuster.com/endosymbiotic-theory-and-others/