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so many fake sites. this is the first one which worked! Many thanks

AP Biology Fall Semester Review 2 ANSWERS

Prokaryotes	Eukaryotes
Genetically variable organisms, have cell membranes & cell walls, not firmly complex (no organelles except ribosomes), different species have different habitats, some live in extreme habitats, have DNA and RNA, usually 1 circular chromosome of DNA, compact genomes, lots of size!	Spherical and multicellular, different cells live in different habitats and conditions, have cell membranes and organelles, some plants, fungi, have cell walls, have DNA in usually linear chromosomes

2. What is the endosymbiotic theory? What evidence do scientists use to support this idea?  
 At some point in the past, bacteria engulfed another bacteria and instead of digesting it, used it to make energy for itself. These organelles became thought to be the precursor to the chloroplast and mitochondria. The strongest evidence for this claim is that both organelles have DNA separate from the DNA in the nucleus of the cell.

3. In what types of cells would you find cilia? Flagella? In fact, what are cilia and flagella?  
 Cilia are hair-like projections that allow a cell to "swim". Use a Paramecium if they push materials around (like in the oviduct of the female reproductive tract or in the human respiratory tract).  
 Flagella are tails that also allow cells to swim-sperm have flagella as do the Euglena (a protist cell).

Chloroplasts	Chloroplasts
Use light to make ATP Found in eukaryotic animal and plant cells	Can harness energy of light to generate ATP. ATP is used in the light independent reactions to make food (glucose) for the plant. Found only in eukaryotic plant cells Green (or some color...)

5. List at many similarities as you can between mitochondria and chloroplasts.  
 -require concentrations of H<sup>+</sup> ions for electron transport  
 -have own DNA separate from the cell  
 -thought to have originated by endosymbiotic hypothesis

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