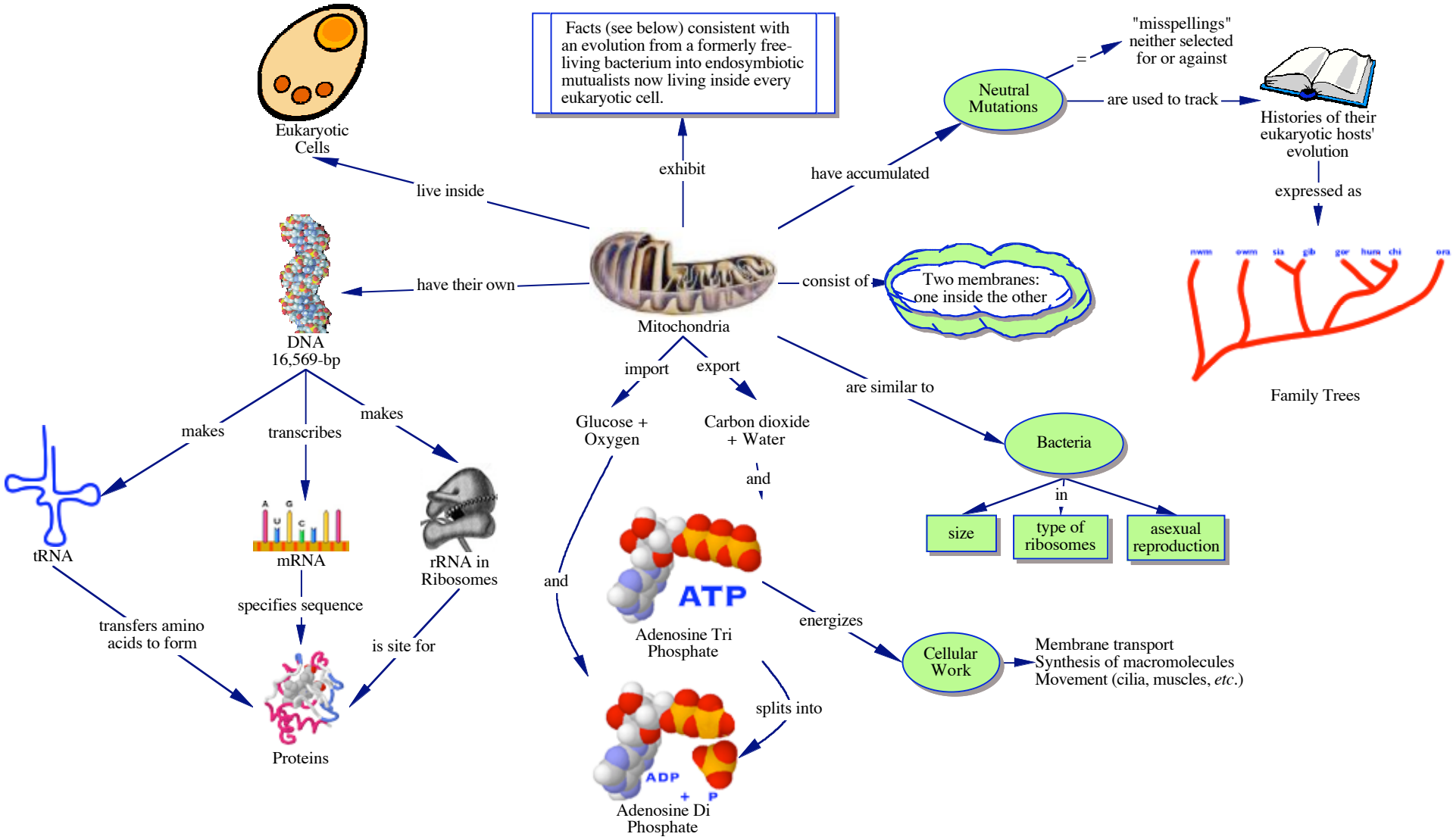
Eukaryotic Cells
Facts (see below) consistent with an evolution from a formerly free-living bacterium into endosymbiotic mutualists now living inside every eukaryotic cell.
"misspellings" neither selected for or against
=
Neutral Mutations
are used to track
Histories of their eukaryotic hosts' evolution
expressed as
live inside
exhibit
have accumulated
have their own
consist of
Two membranes: one inside the other
Mitochondria
DNA 16,569-bp
Family Trees
import
export
are similar to
Glucose + Oxygen
Carbon dioxide + Water
Bacteria
makes
transcribes
makes
and
in
size
type of ribosomes
asexual reproduction
tRNA
mRNA
rRNA in Ribosomes
and
ATP
Adenosine Tri Phosphate
energizes
specifies sequence
transfers amino acids to form
is site for
Cellular Work
Membrane transport
Synthesis of macromolecules
Movement (cilia, muscles, etc.)
splits into
Proteins
ADP + P
Adenosine Di Phosphate