

TABLE 5.1. Homology and analogy

Type of Trait	Homologous Example	Analogous Example
Morphology	Human hand and bat wing	Bird and insect wings
Physiology	Ion transport via ATP-binding cassette transporter proteins	Growth in high salt of algae and halophilic archaea
Biochemistry	Capture of light by chlorophyll in cyanobacteria and chloroplasts	Capture of light by chlorophyll vs. rhodopsins
DNA composition	High genome A + T content of mitochondrial genomes from humans and chimps	High genome A + T content of mitochondrial and mycoplasma genomes

Homologous features are defined as those that share a common descent, whereas analogous features are those that have a common form or function but are derived separately. Homology and analogy can be seen in every type of biological feature, and a few examples are given in this table.