

The Two Cell Types

	Prokaryotes	Eukaryotes
nucleus?	NO (nucleoid)	YES
membrane-bound organelles?	NO	YES (Many)
size	1 - 10 μm	10 - 50 μm
when evolved?	3.5 billion years ago	1.5 billion years ago
cytoplasm?	YES	YES
cell membrane?	YES	YES
cell wall?	Some Do	Plants
ribosomes?	YES	YES
DNA?	Circular Free Floating	Chromosomes in Nucleus
examples	Bacteria	Plants, Animals, Fungi, and Protists