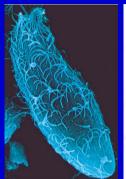
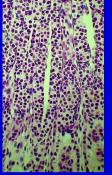
Cell Biology







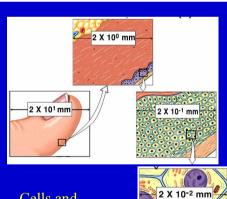
A cell is chemical system that is able to maintain its structure and reproduce. Cells are the fundamental unit of life. All living things are cells or composed of cells.

1

The interior contents of cells is the cytoplasm. The cytoplasm is isolated from the surrounding environment by the There are two fundamentally different forms of cells. cells relatively simple cells - lack nuclear membrane and many organelles - bacteria and their relatives are all prokaryotic Plasma cells - more Cytoskeleton complex cells - have a Smooth endoplasmic reticulum nucleus and many organelles - all cells of plants, animals, -Mitochonfungi, and protists

Nucleus

reticulum



Most cells are small

Prokaryotic: 1-10 μm

Eukaryotic: 10 - 100 μm

 $(1 \mu m = .001 mm)$

Cells and organelles

