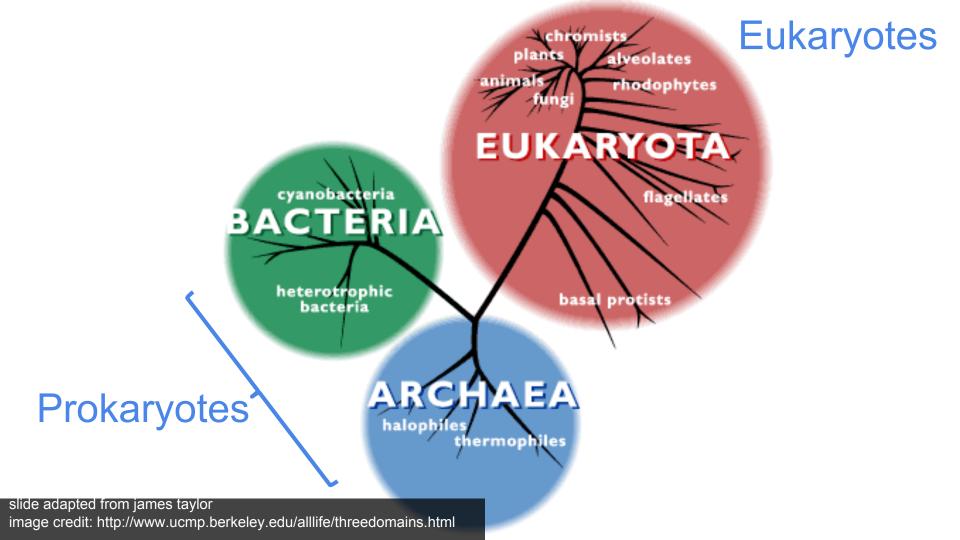
Just enough cell biology

Steven Salzberg

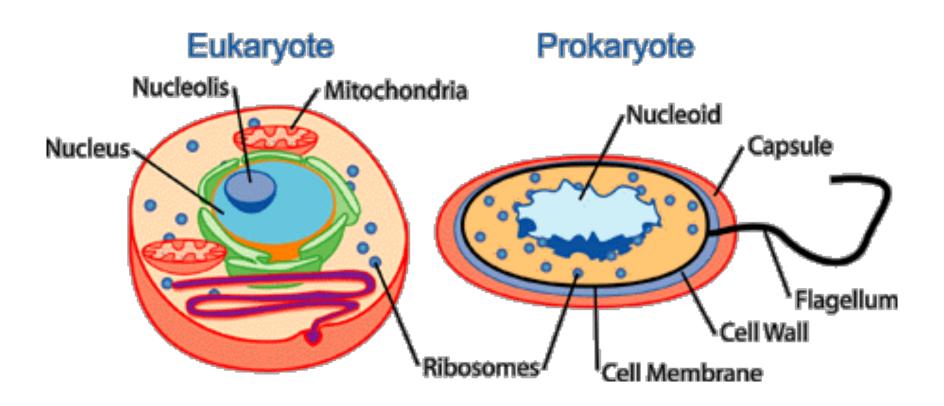


There are three basic domains of life Eukaryota Bacteria

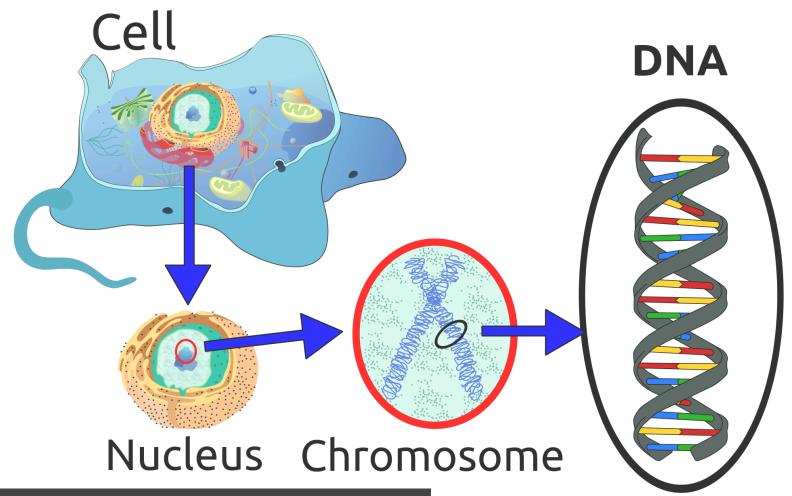
Archea



There are two basic types of cells prokaryotic (no nucleus) eukaryotic (nucleus)

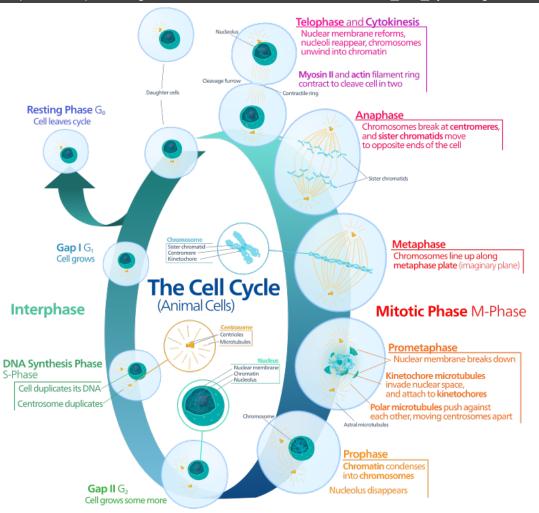


For eukaryotic cells The nucleus is in the cell The chromosomes are in the nucleus The chromosomes consist of DNA

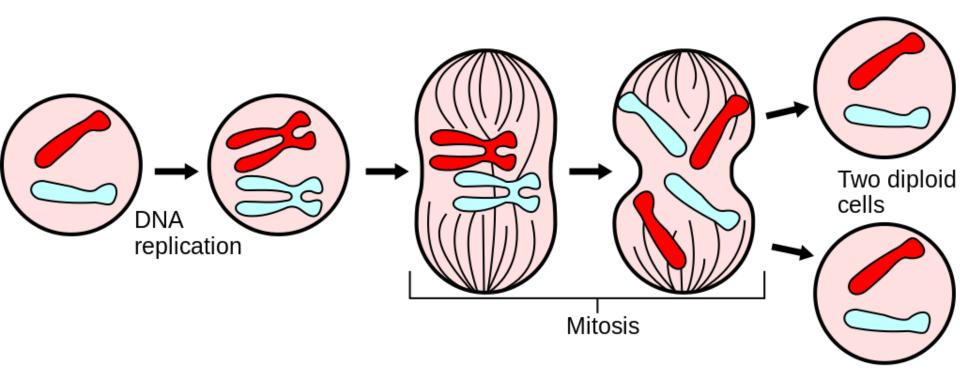


The cell cycle describes the life cycle of a cell

image credit: http://en.wikipedia.org/wiki/Mitosis#mediaviewer/File:Animal_cell_cycle.svg

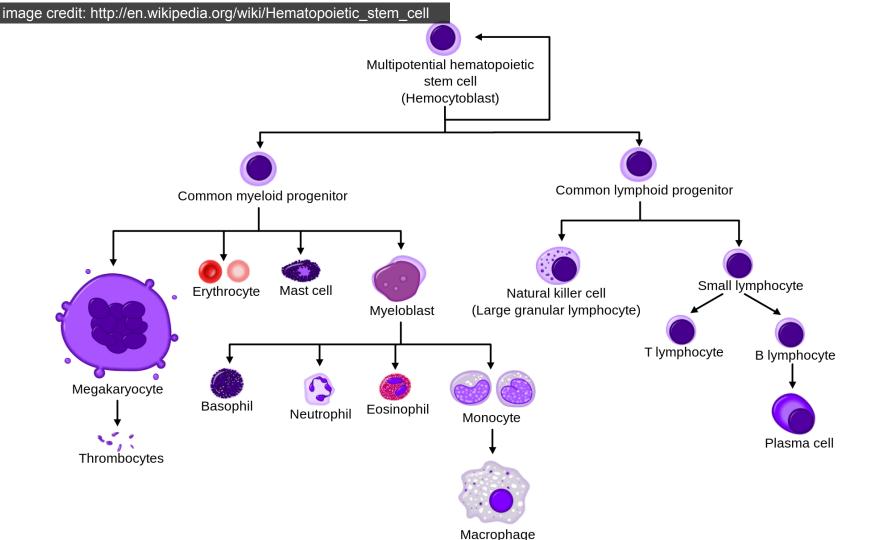


Mitosis is the process of separating chromosomes into daughter cells from a parent cell



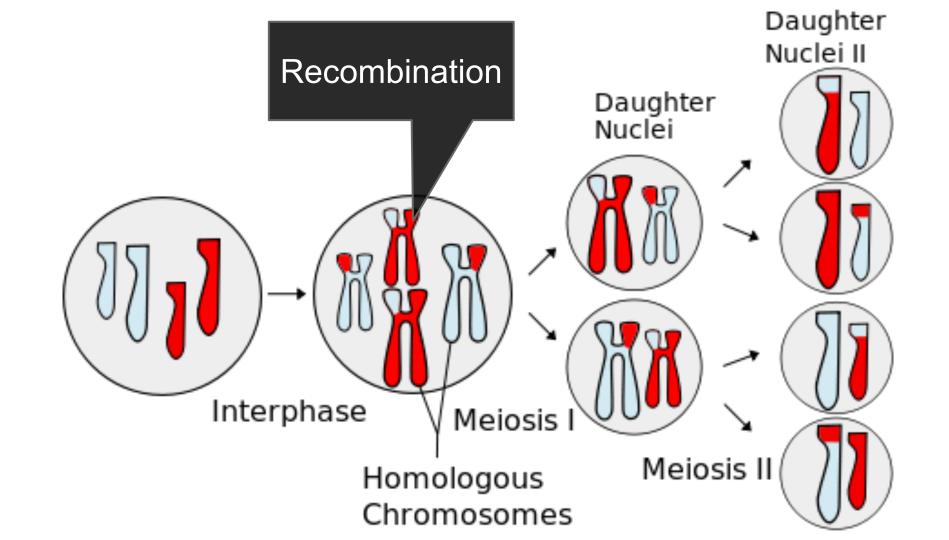
Cells develop into different types over

time



Meiosis is a specialized form of cell division that cuts the number of chromosomes in half

During sexual reproduction, recombination shuffles genetic information between parents



Recombination is one of the reasons that family members aren't exactly alike

