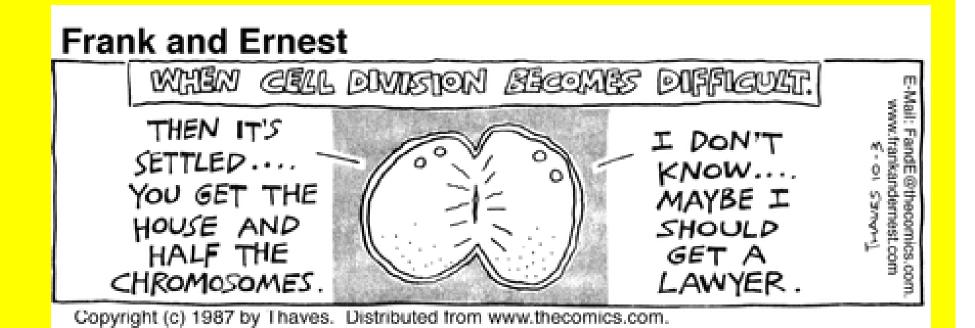
Chapter 11-4 Part 1

Intro to MEIOSIS



I. Mendel

- A. Studied genetics before genes, DNA and meiosis were discovered.
- B. Wrote several principles-two that apply
 - 1. Each organism inherits a single copy of every gene from each parent.

II. Chromosome Number

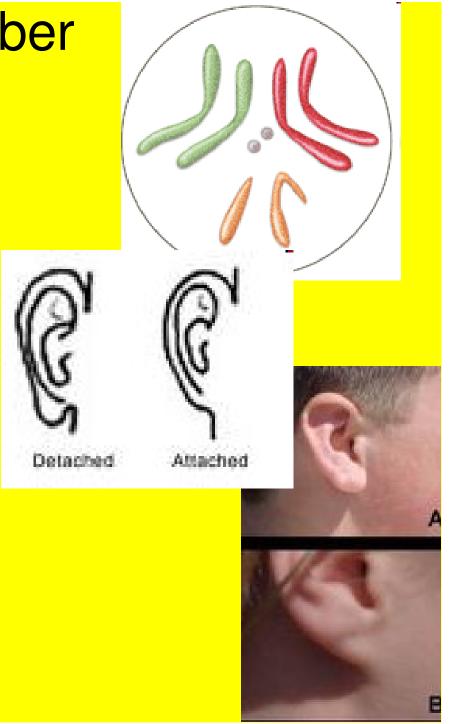
A. Homologous Chromosomes = chromosomes that code for same genes/traits, but come from different parents and so have different genetic info.

B. Chromosome from female parent that has the genes for hair color, eye shape, dimples and ear lobes paired up with the chromosome from male parent that codes for those same genetic traits, but have different genetic info are homologous chromosomes.

Example: Gene/Trait = earlobes

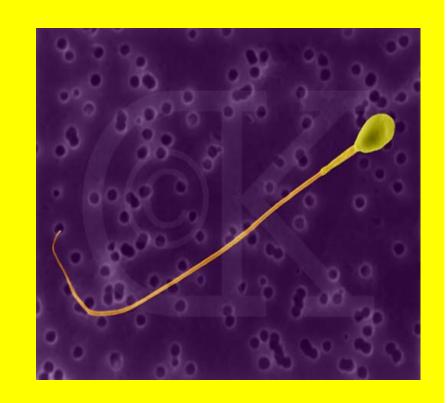
Genetic info = attached or

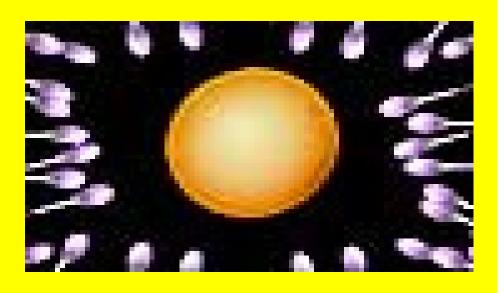
unattached



B. Haploid=N

- N = One set of chromosomes (from one parent).
- 2. Humans haploid # = 23
- 3. All gametes contain haploid #





C. Diploid=2N

1. Two sets of homologous chromosomes

2. 2N (remember N=1 set of chromosomes)

3. Humans 2N=46

4. All somatic cells contain the diploid number of chromosomes

