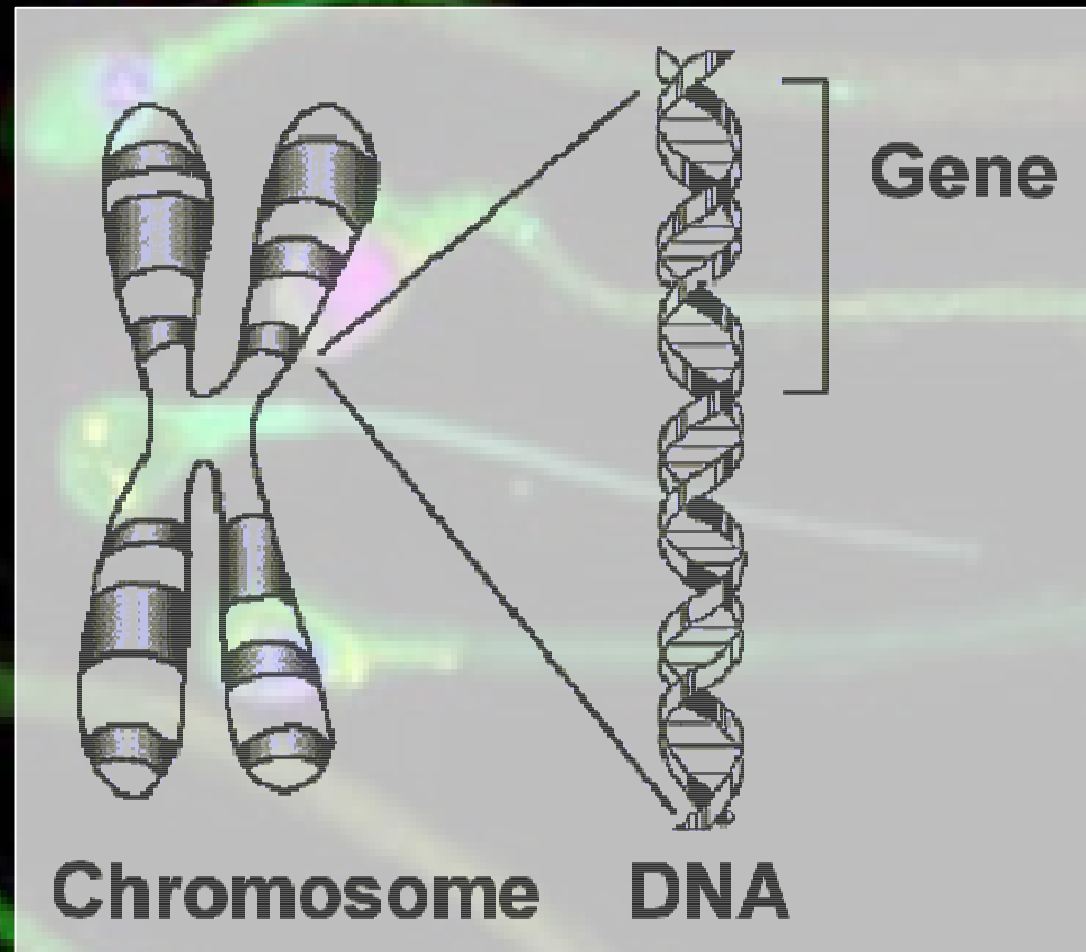
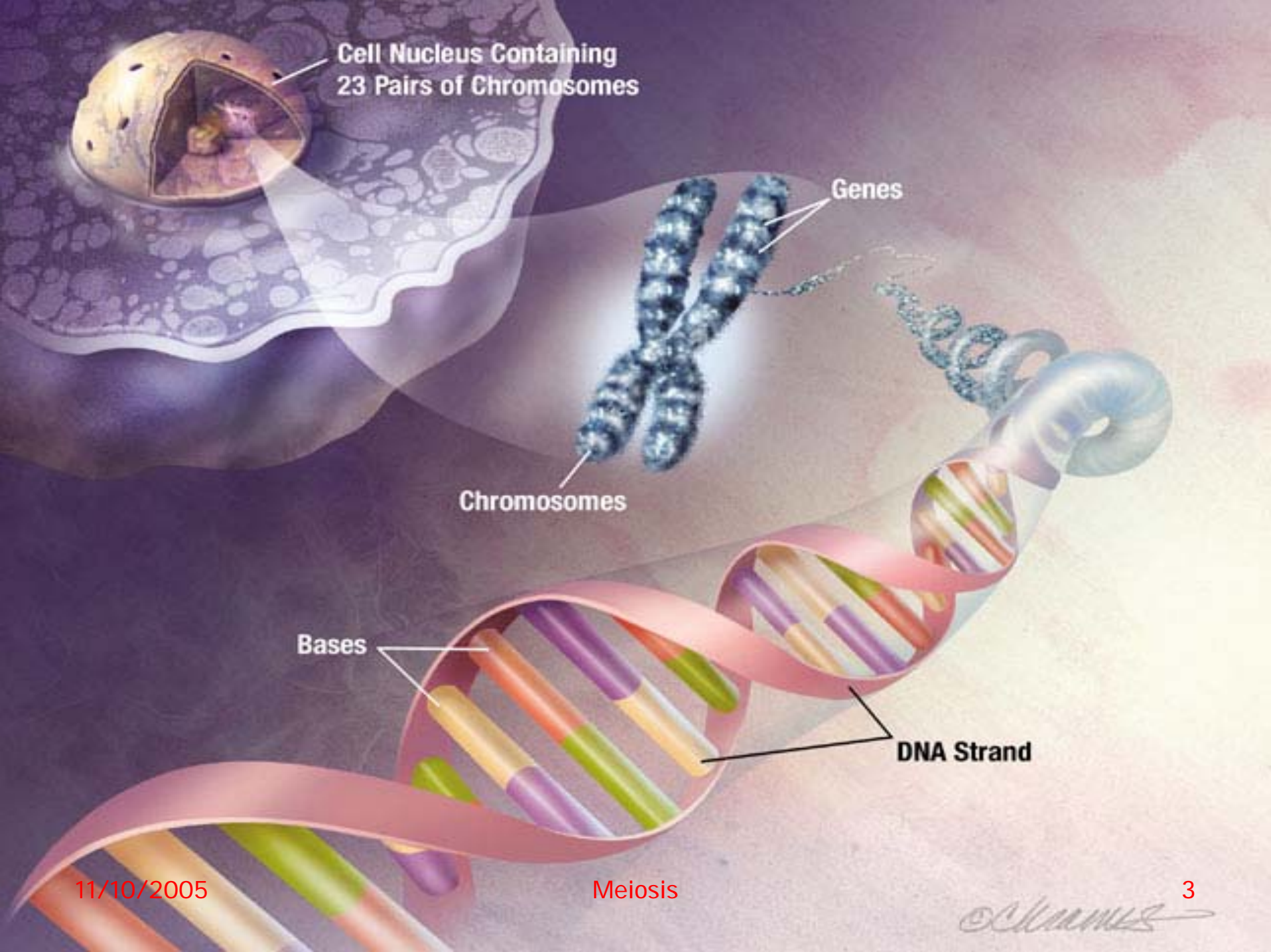


Meiosis
Sexual Reproduction
Eukaryote Life Cycles

Some basics...

- Genes
- DNA
- Chromosomes
- Gametes





Cell Nucleus Containing
23 Pairs of Chromosomes

Genes

Chromosomes

Bases

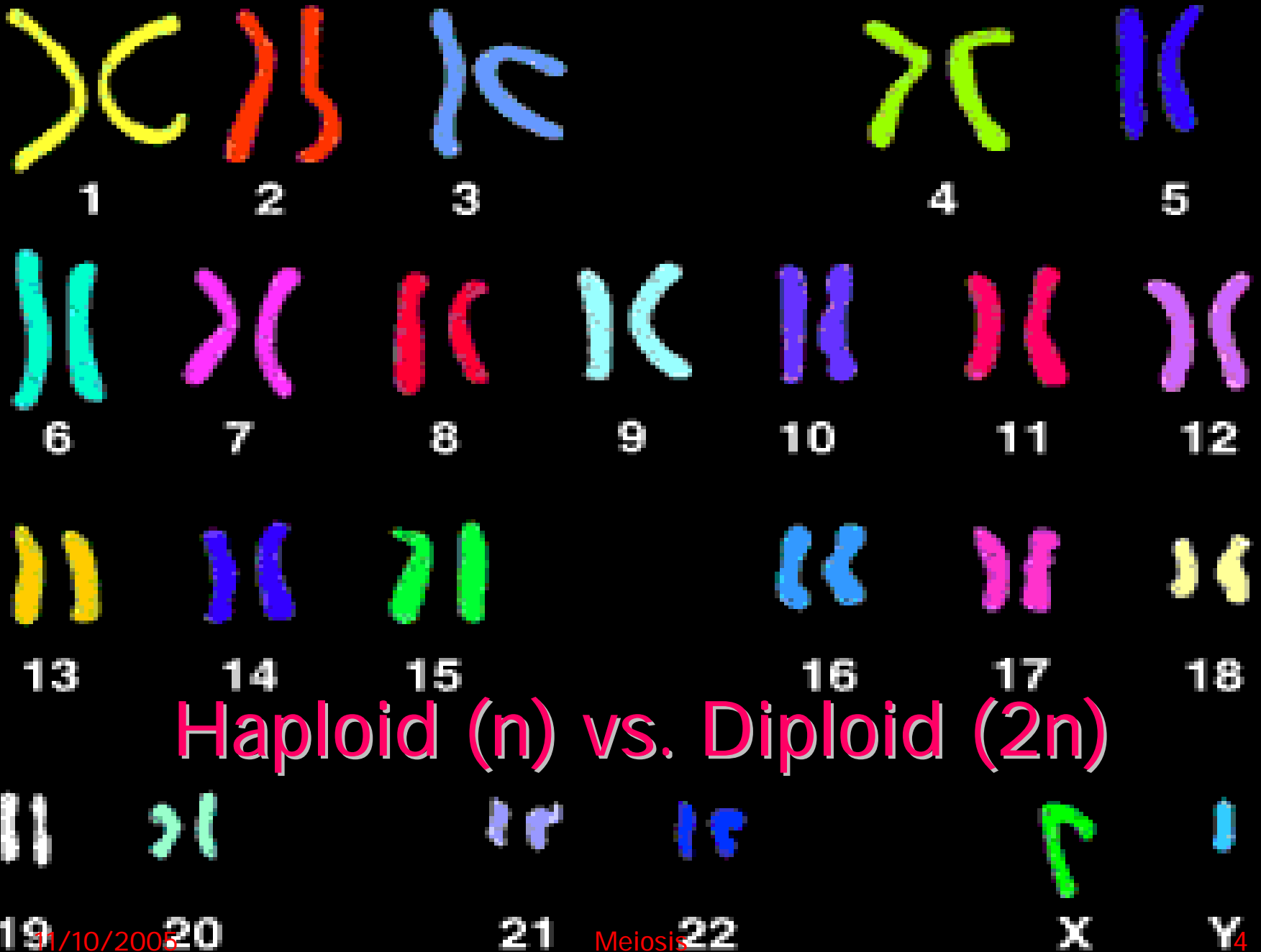
DNA Strand

11/10/2005

Meiosis

3

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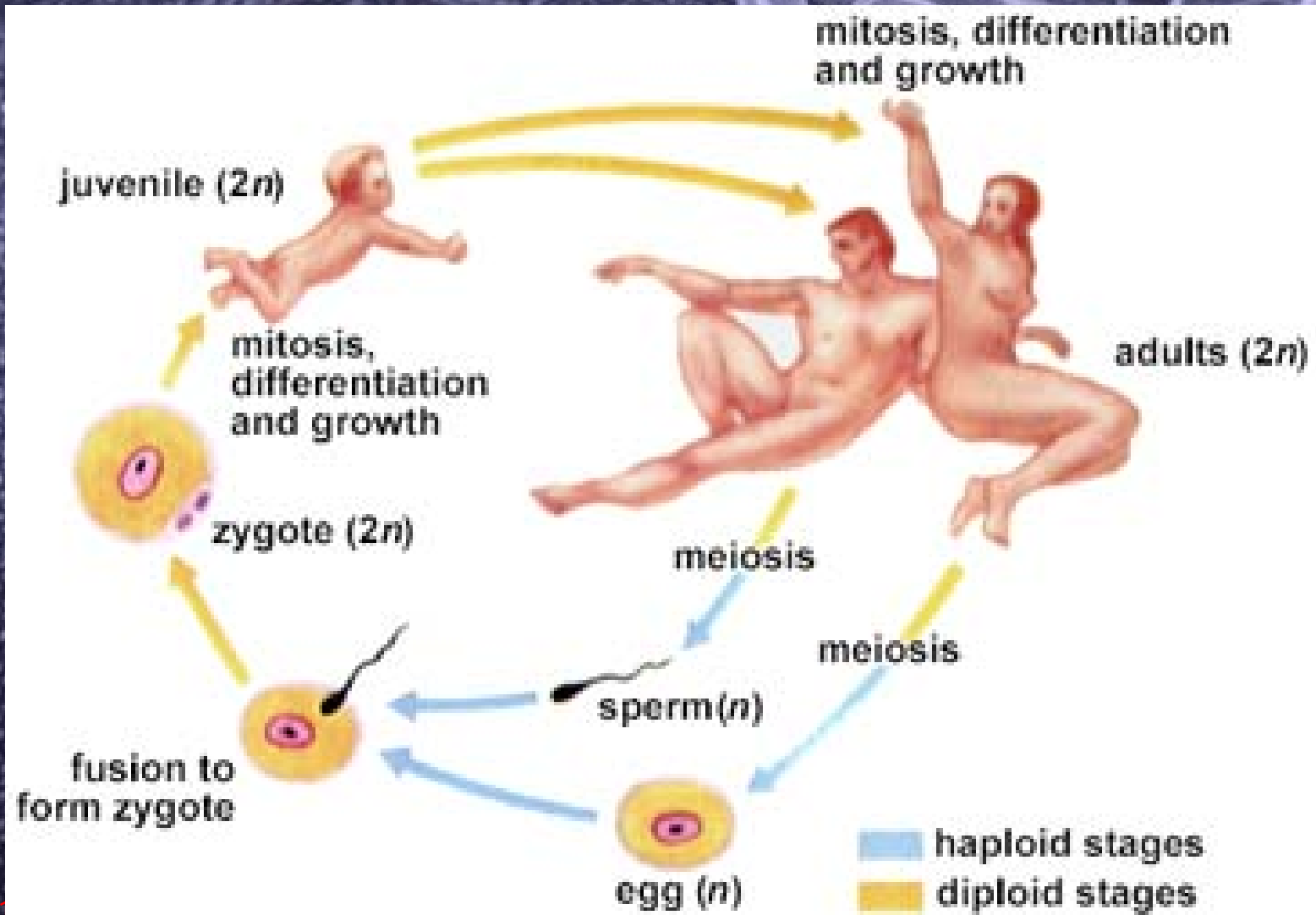
Haploid (n) vs. Diploid (2n)

11/10/2005

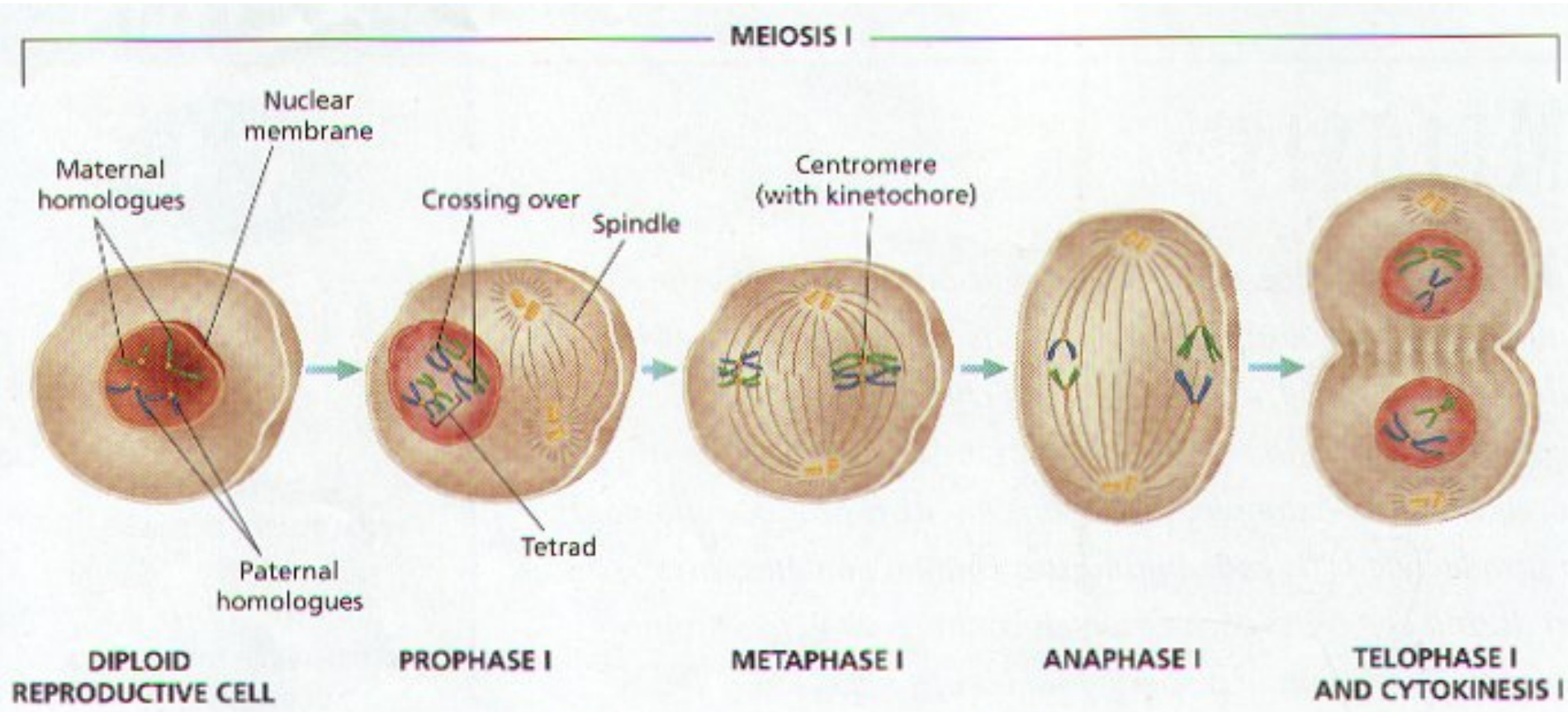
Meiosis

4

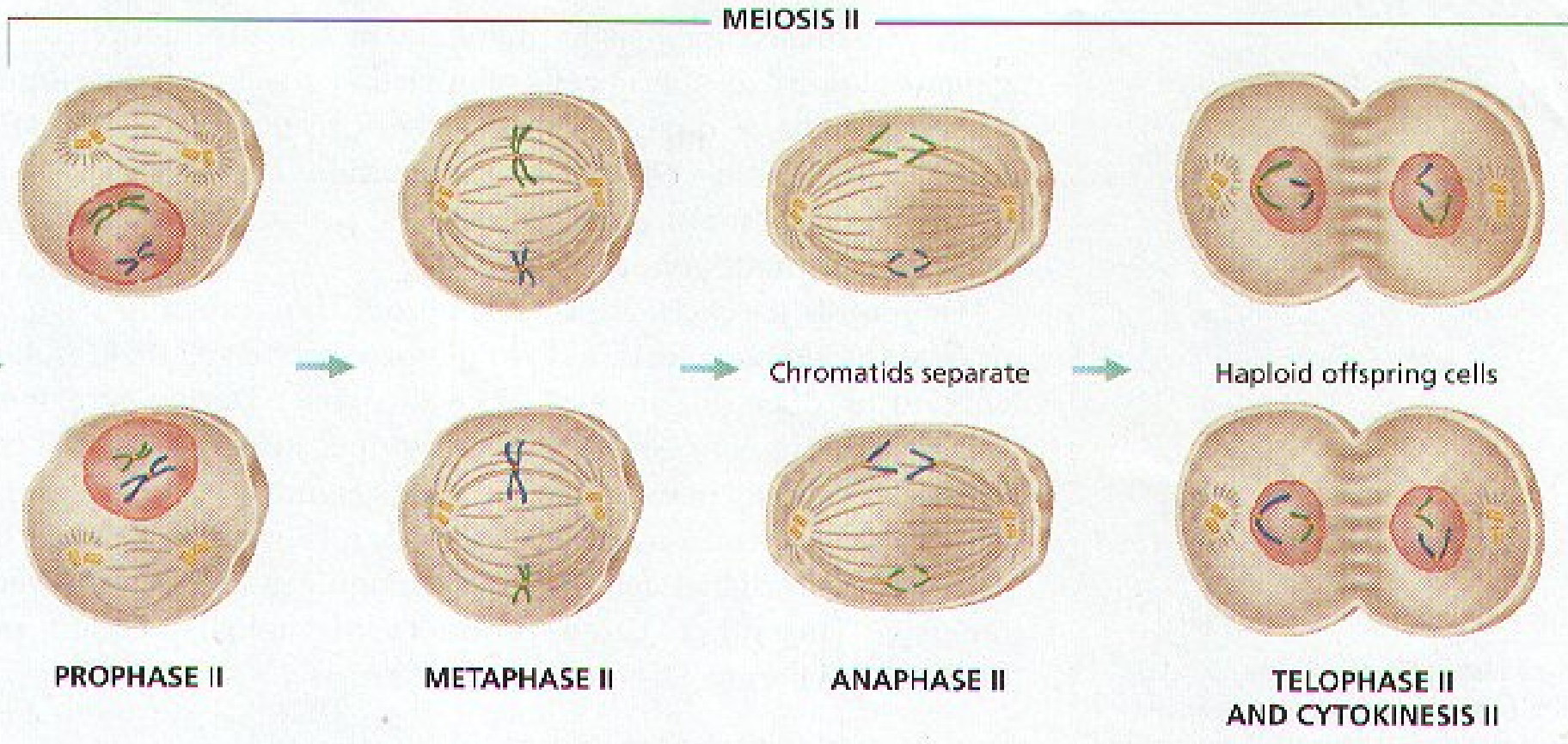
Sexual Life Cycle



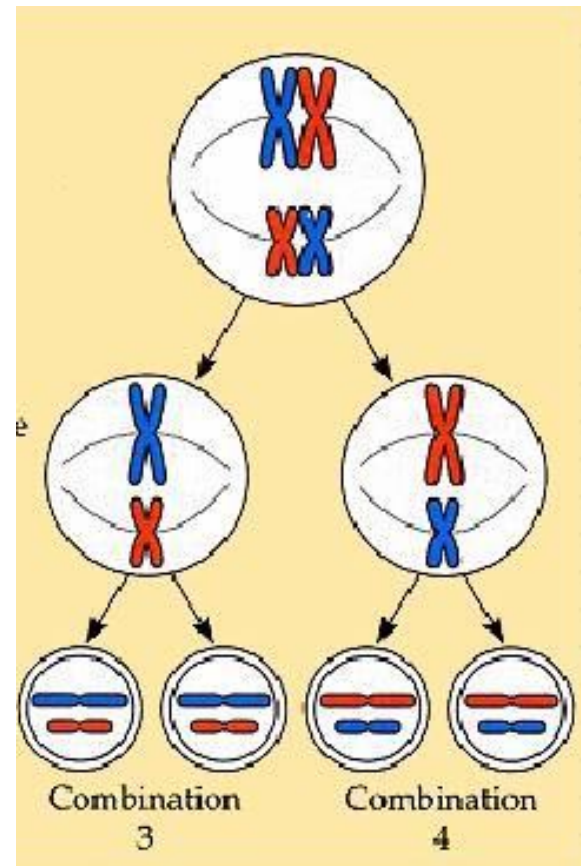
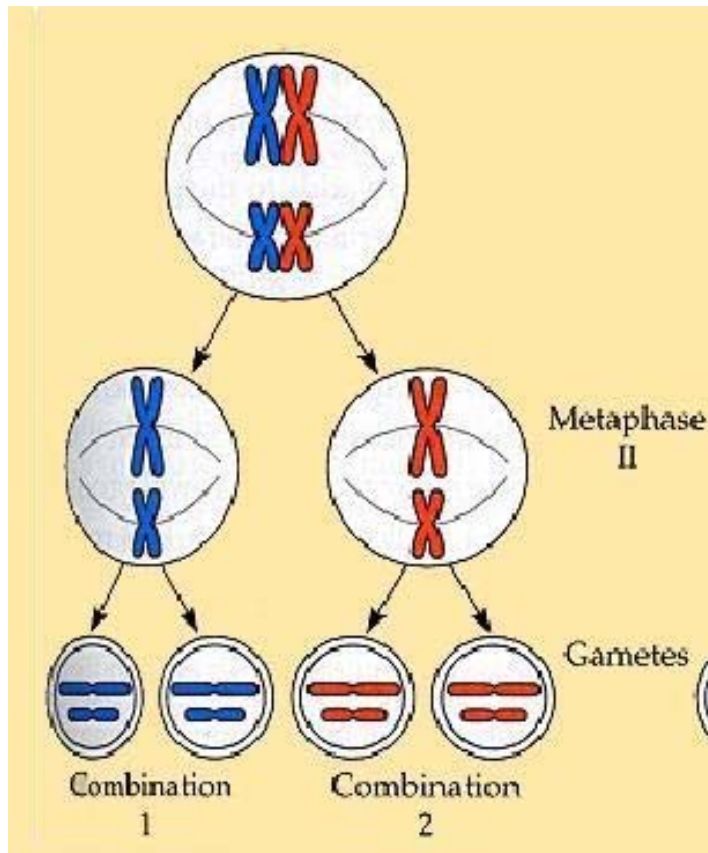
Meiosis I



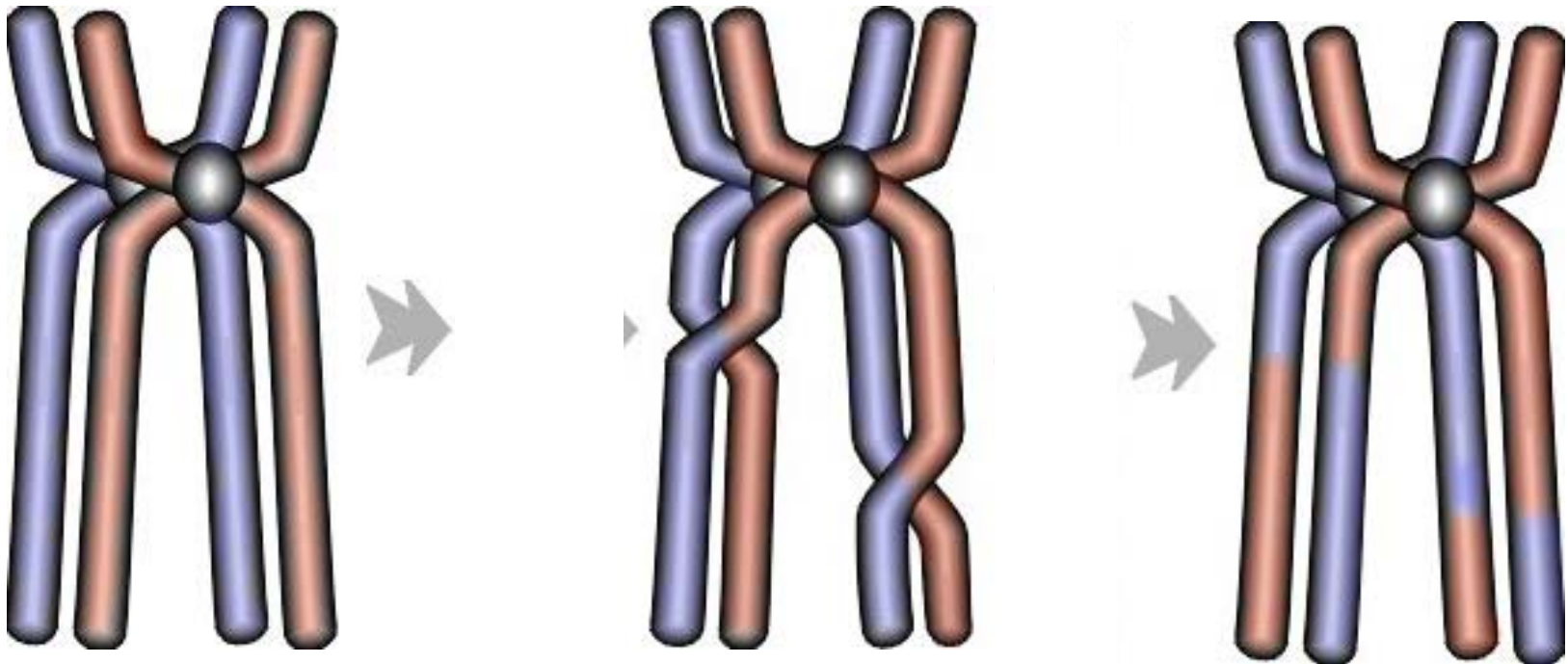
Meiosis II



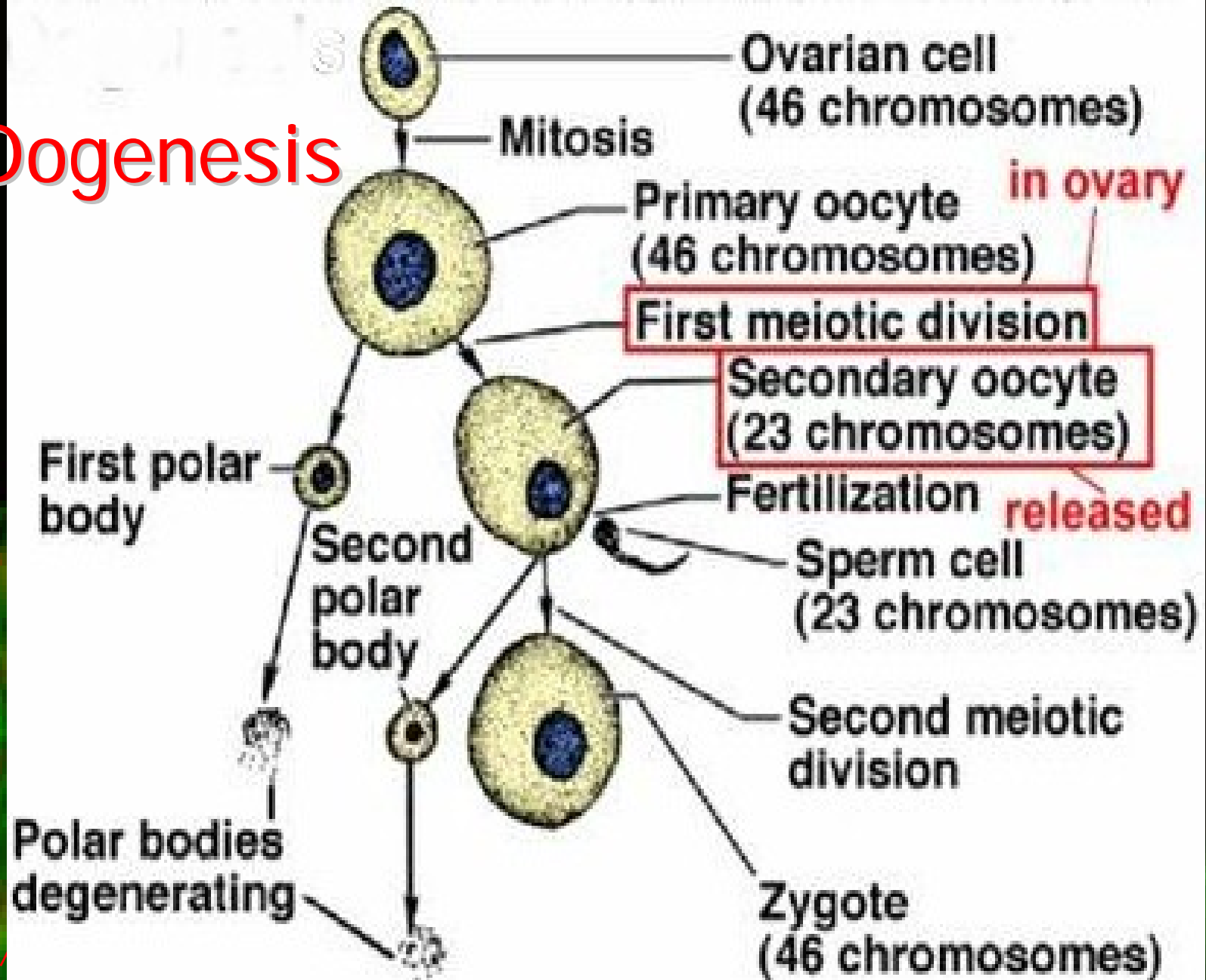
Genetic Variation Independent Assortment



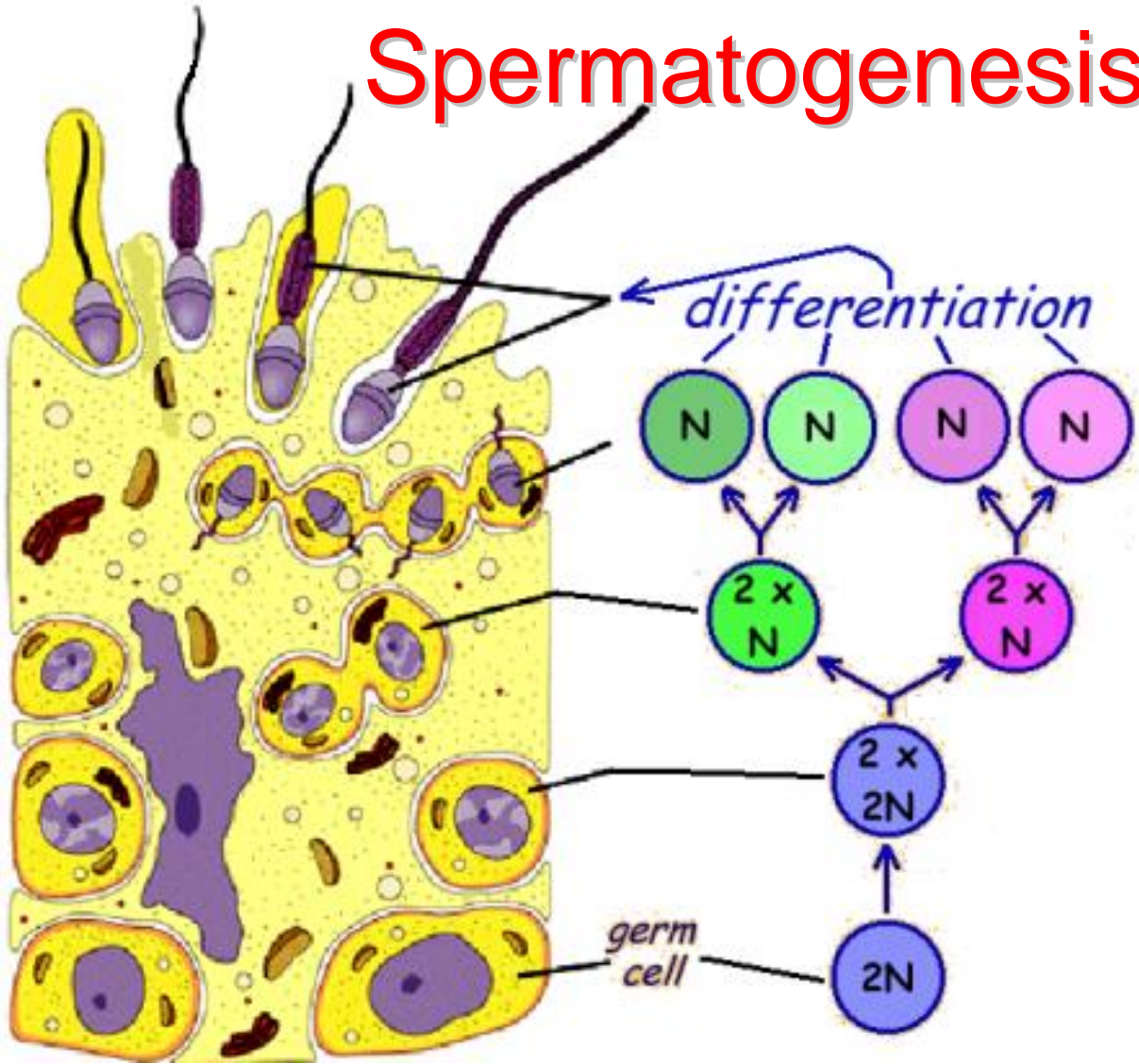
Genetic Variation Crossing Over



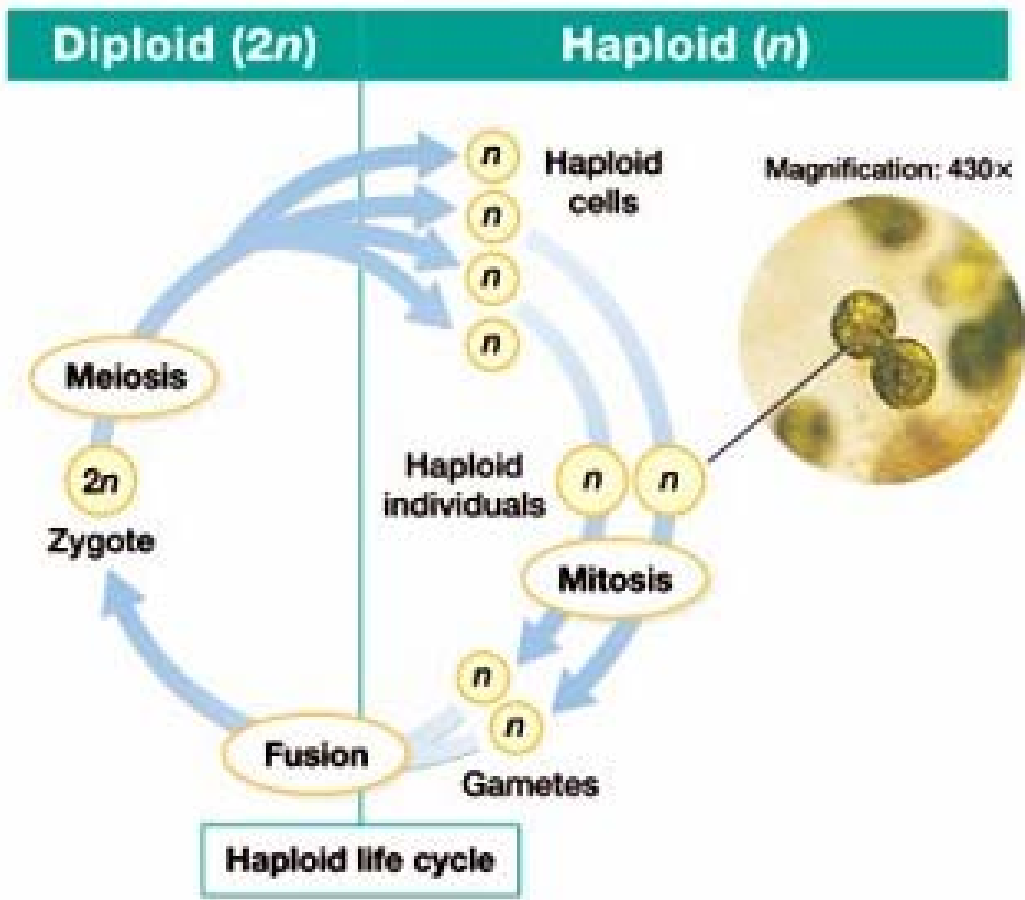
Oogenesis



Spermatogenesis



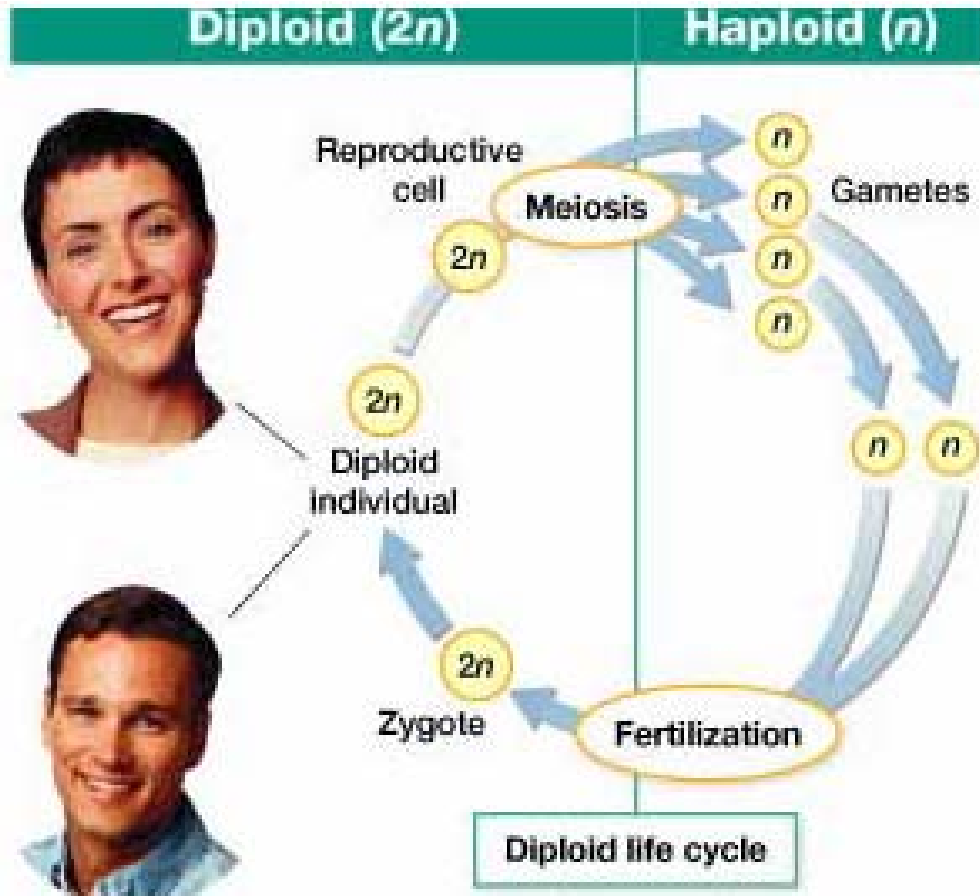
Eukaryote Life Cycles



Chlamydomonas
A green algae

Haploid stages
dominate

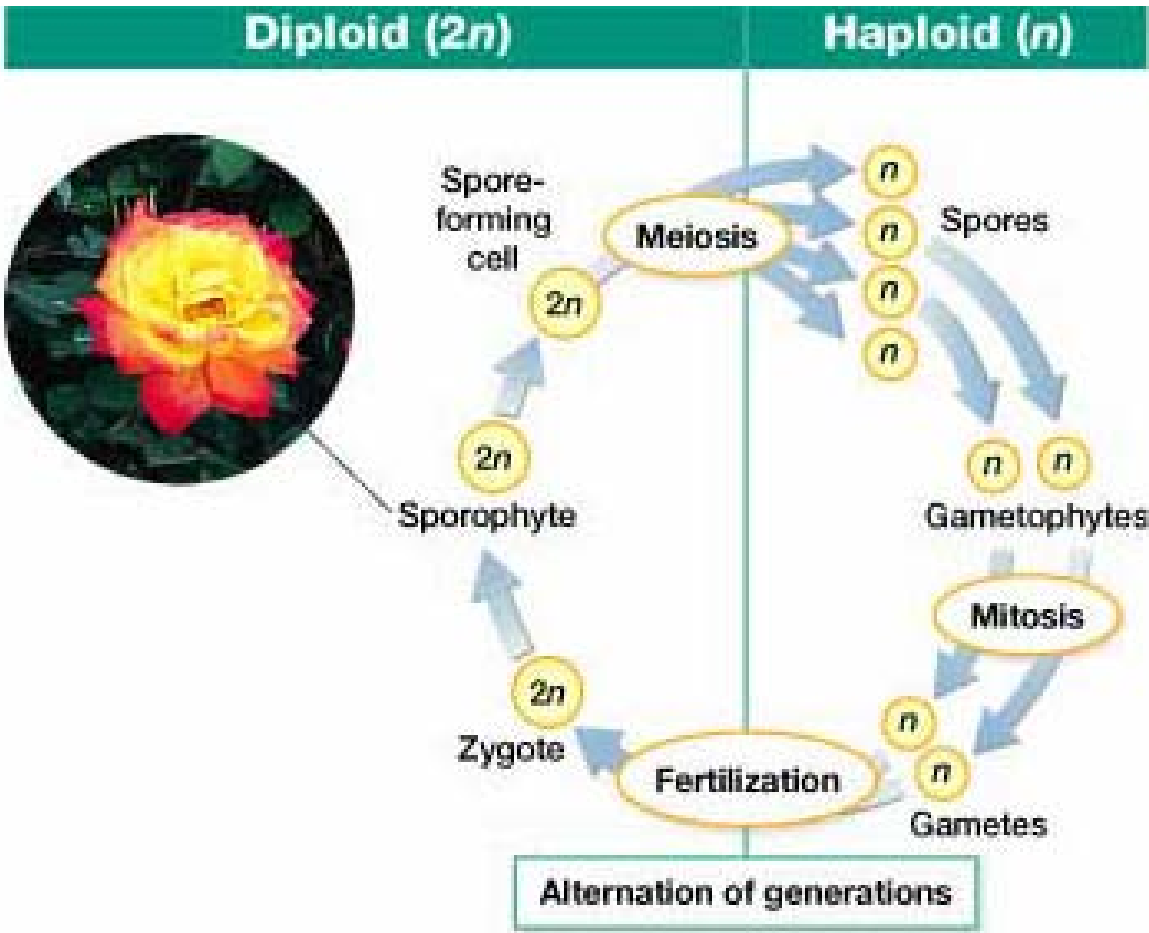
Eukaryote Life Cycles



Vertebrate animals

Diploid stage dominates

Eukaryote Life Cycles



Alternation of Generations
Many algae

All land plants

Mosses: gametophyte dominant

Ferns, Conifers, Flowering Plants: sporophyte dominant



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Meiosis

15

Parthenogenesis



Whiptail lizard

References

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- <http://www.stanford.edu/group/Urchin/GIFS/crossover.jpg>
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