

Meiosis

Ch. 10.1

The purpose:

1. Cut chromosome # in half
2. Increase diversity

A. Gametes must be haploid

B. 2 stages

1. Meiosis I

a. Reduction division

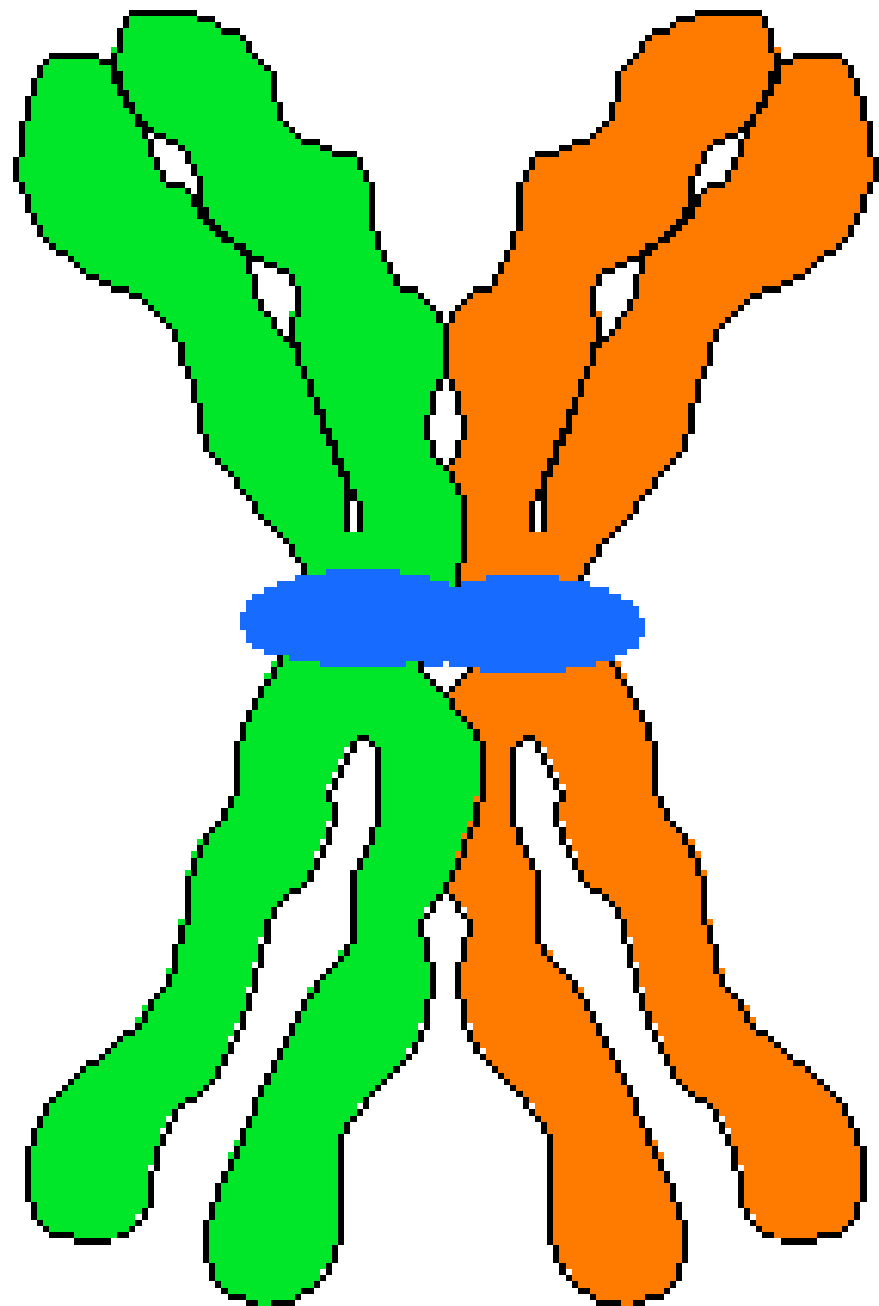
b. Daught's are haploid

Egg (Ovum)



Sperm



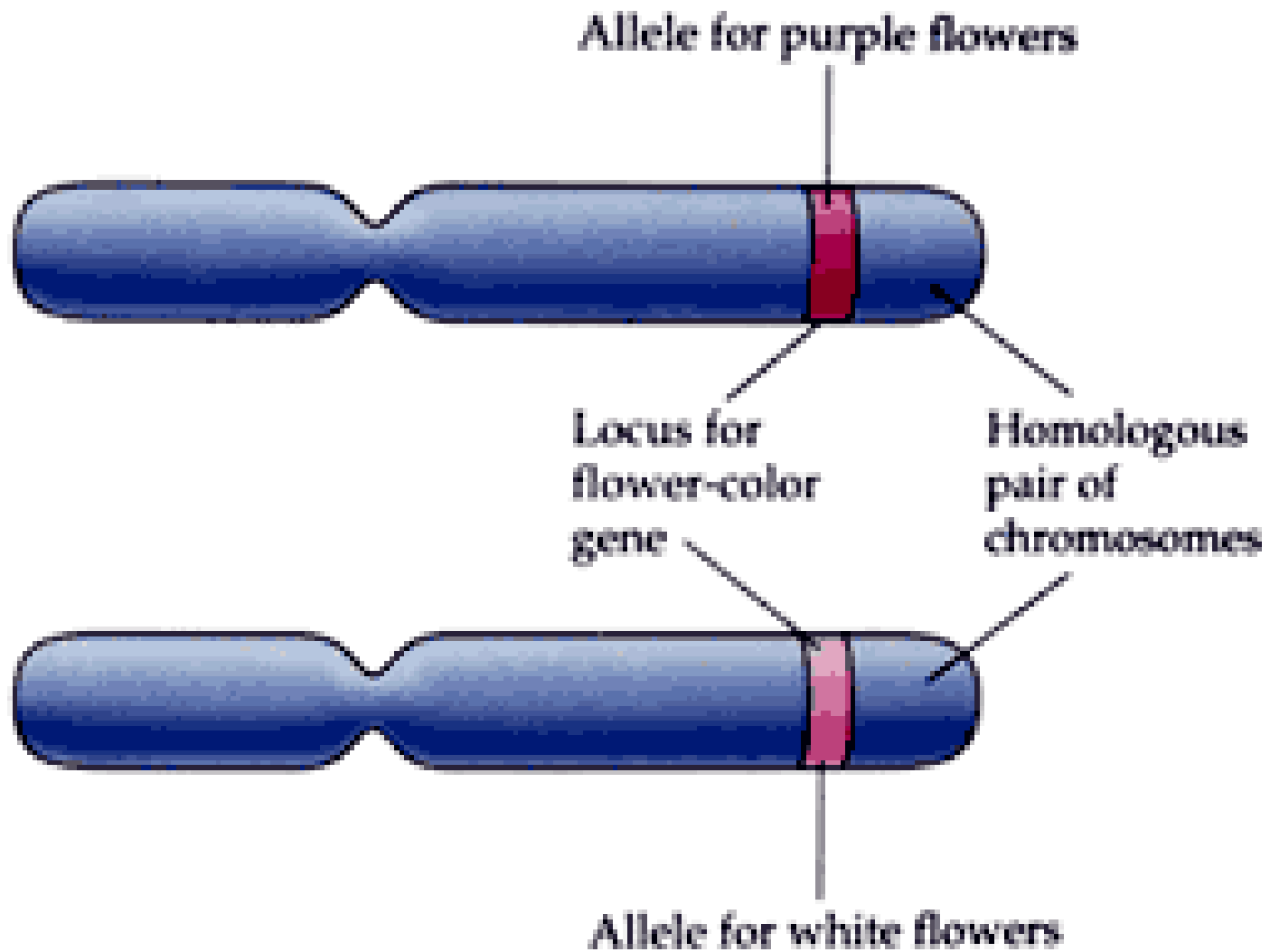


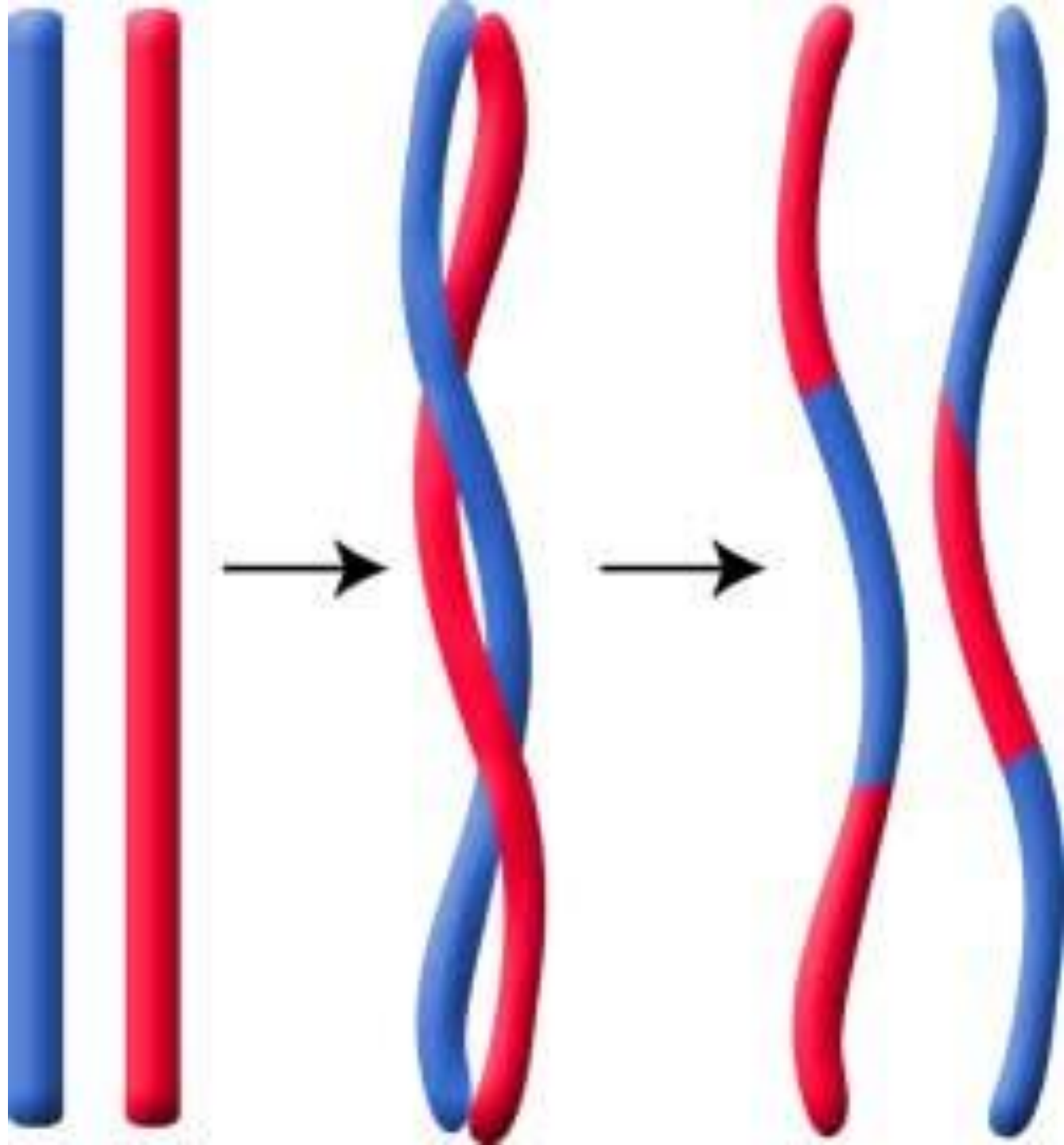
c. Tetrad (P1)

d. Crossing over (P1)

-homologous
chromosomes

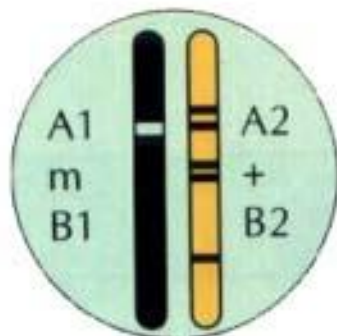
-genetic diversity



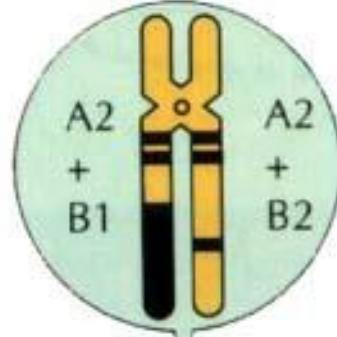
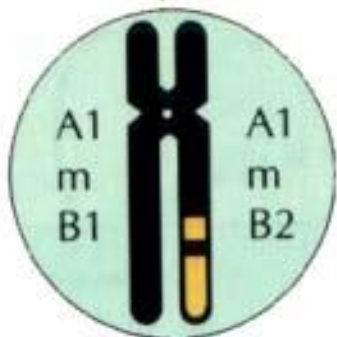
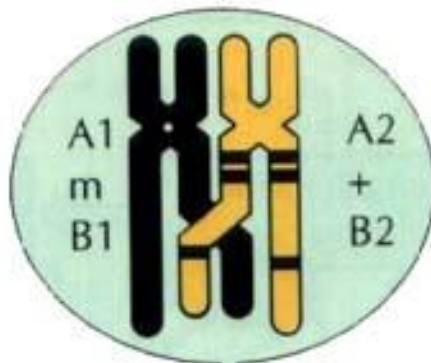


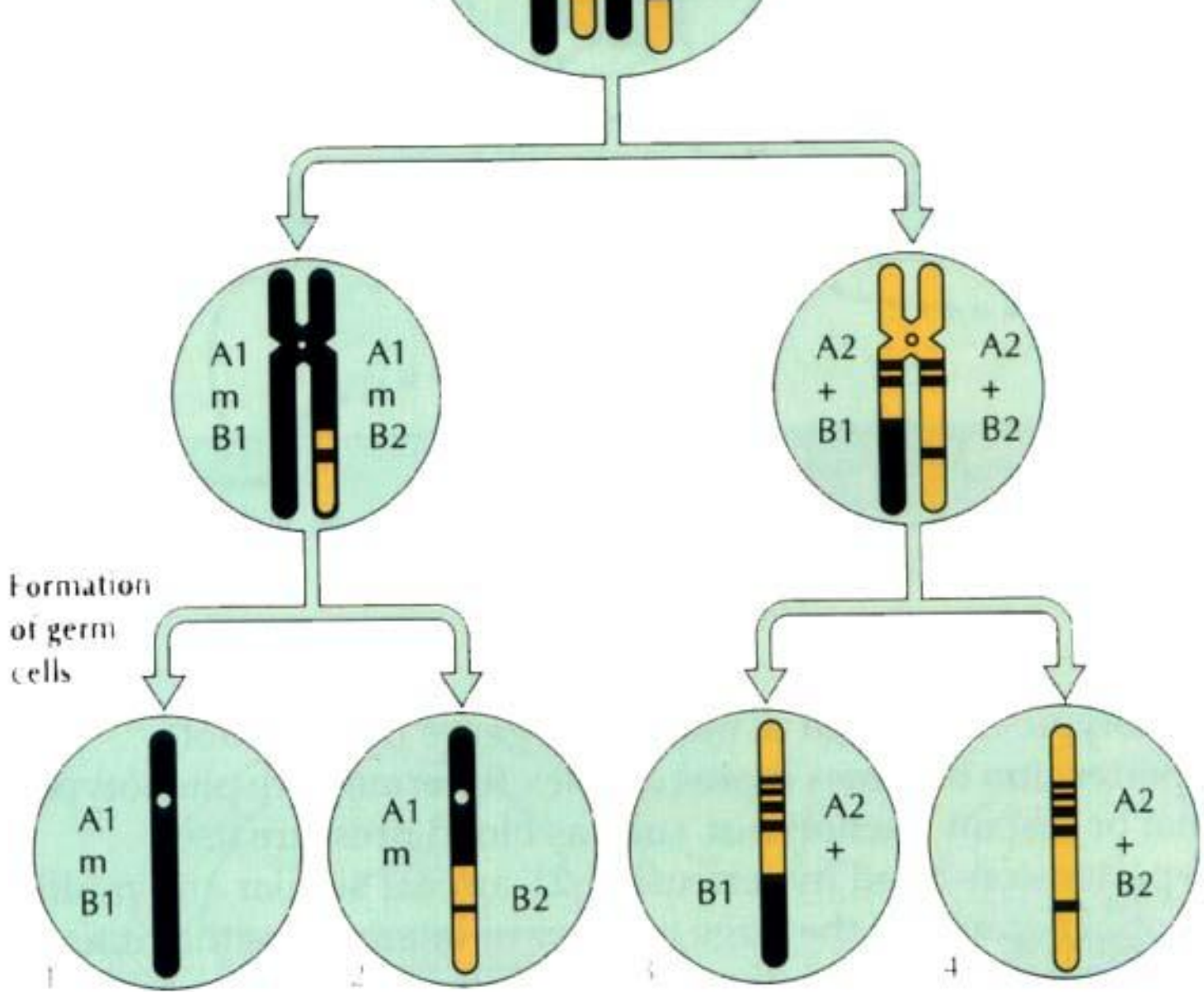
- e. Metaphase I: tetrads
line up in middle
(not just individual
chromosomes)
- f. Anaphase I: double
stranded chrom's
get pulled apart

Precursor cell



Crossing over





2. Meiosis II

a. Just like mitosis

b. 2 become 4

(hap \rightarrow hap)

