

# Meiosis

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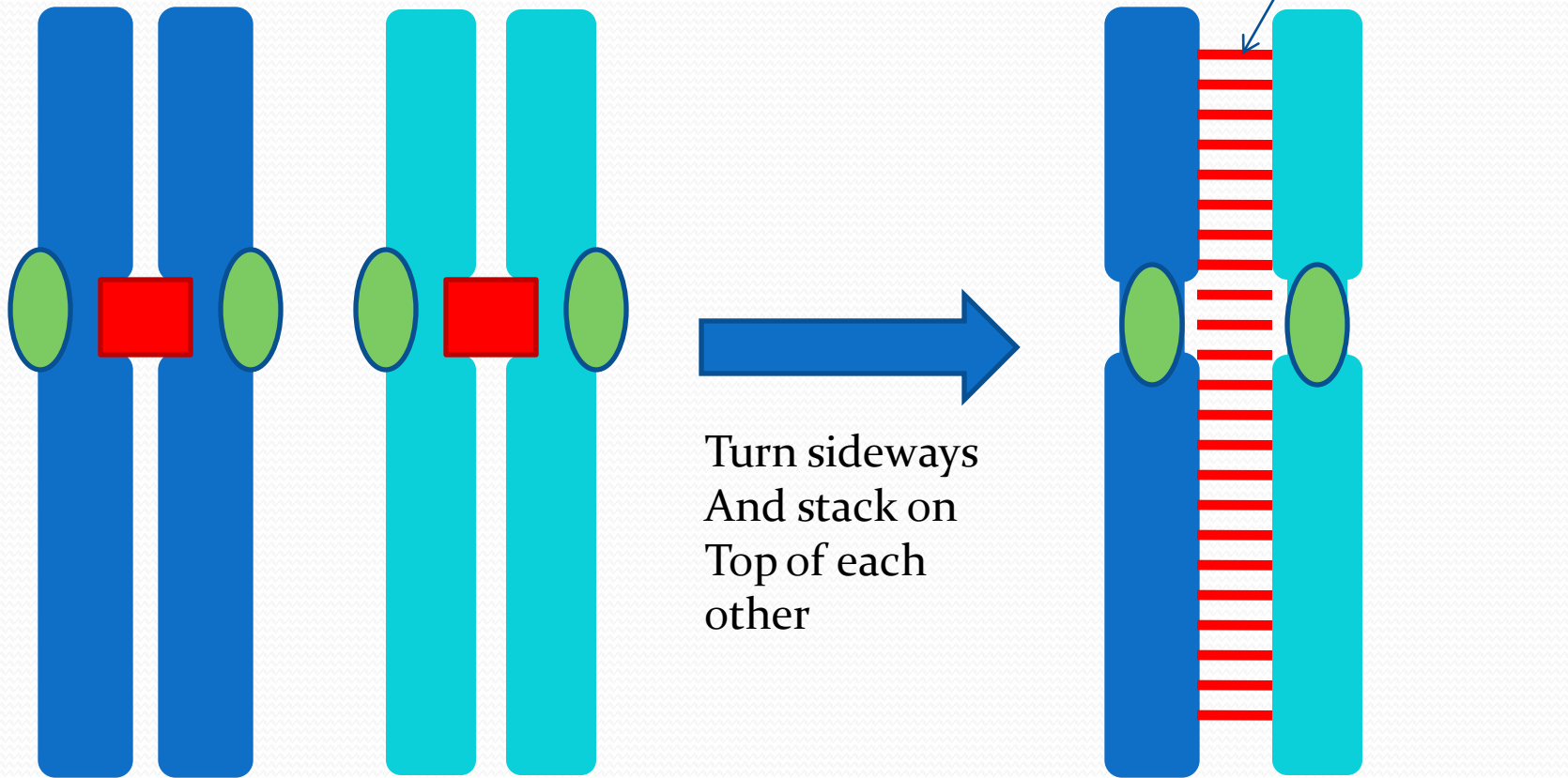
# Topics to Cover

- Sexual Reproduction
- Features of Meiosis
- Meiosis
- Meiosis vs. mitosis

# Sexual Reproduction

- Meiosis allows for a reduction of the number of chromosomes in sex cells
- Germ-line cells (haploid) are set aside and produced through meiosis

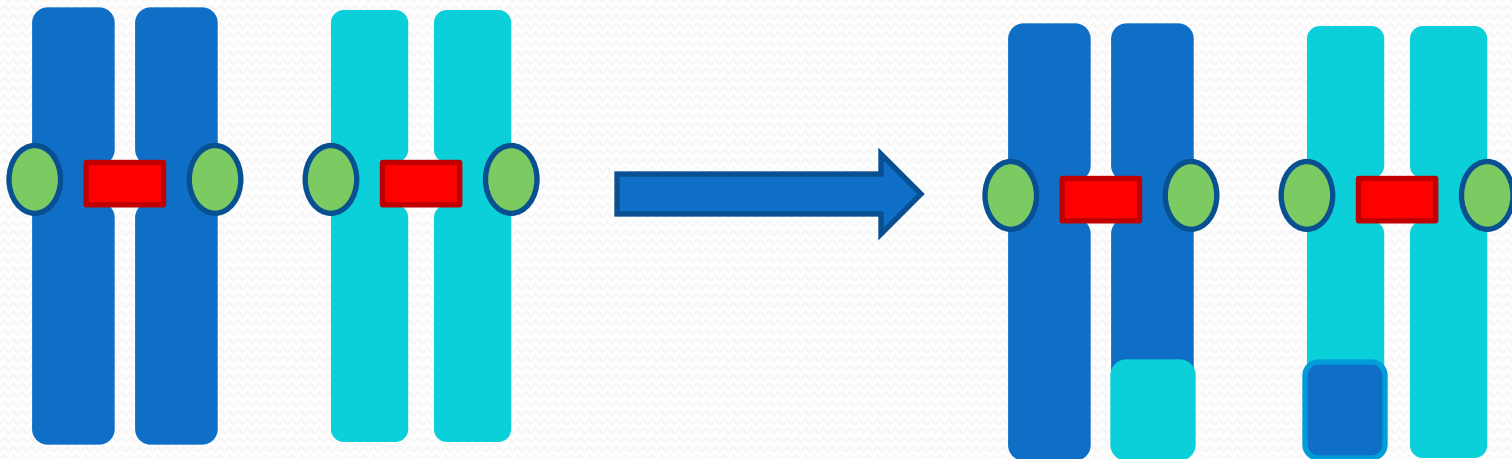
# Structure of Meiosis



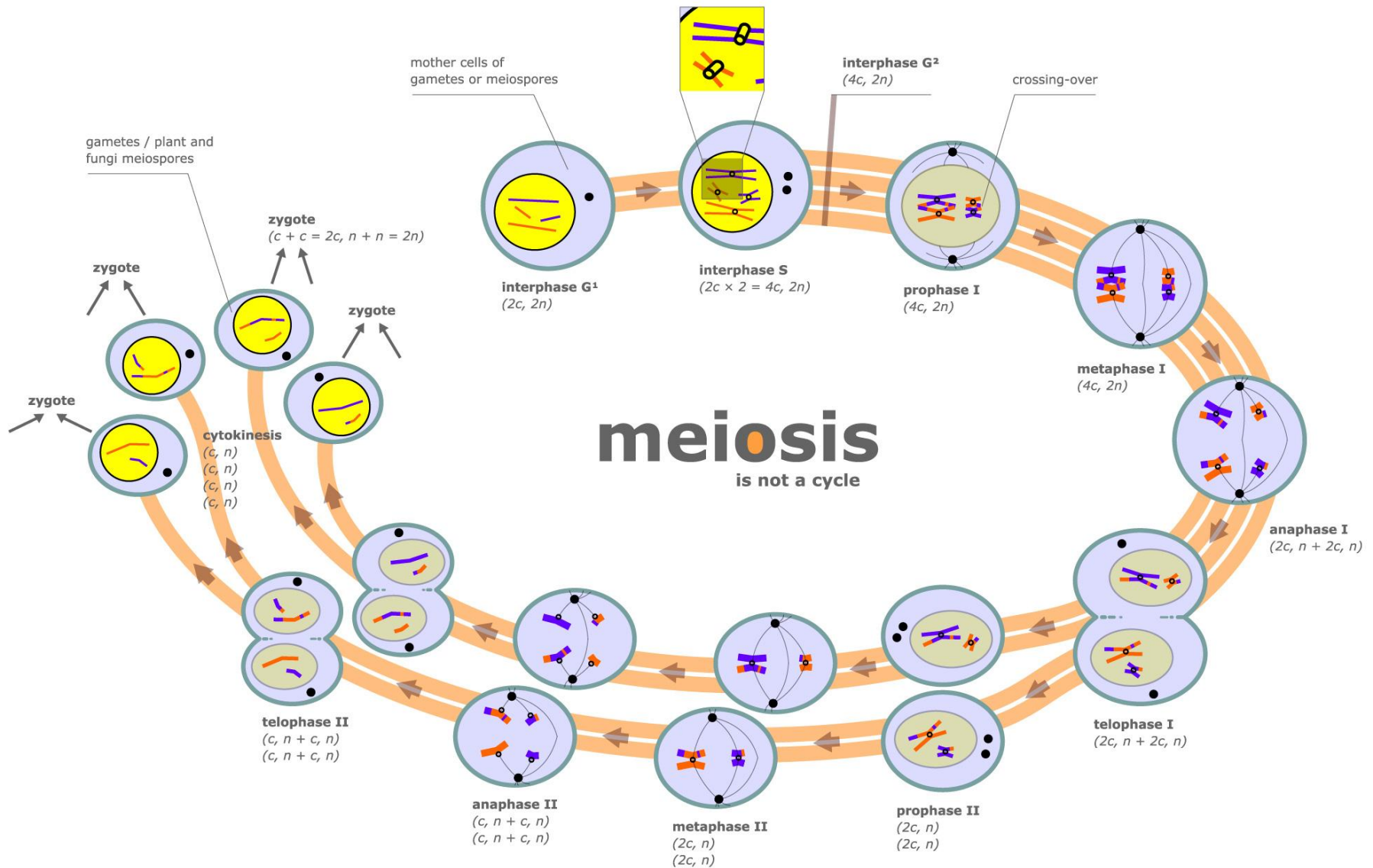
Homologous Pair

# Homologous Recombination

- Areas of Homology can exchange in the Synaptonemal complex, exchanging information between chromstids.
- Areas where there is cross over are called **chiasmata**.



# Meiosis



# Features of Meiosis vs. Mitosis

- Homologous recombination in Prophase I
- Cosegregation of sister chromatids in Anaphase I, due to cohesin proteins remaining intact
- The attachment of sister kinetochores to the same pole in meiosis, opposite poles in mitosis.
- Suppression of S phase between meiosis I and II