

CHAPTER 13 MEIOSIS

Figure 13.1 The sexual reproduction of a fish



Figure 13.3 Preparation of a human karyotype (Layer 4)

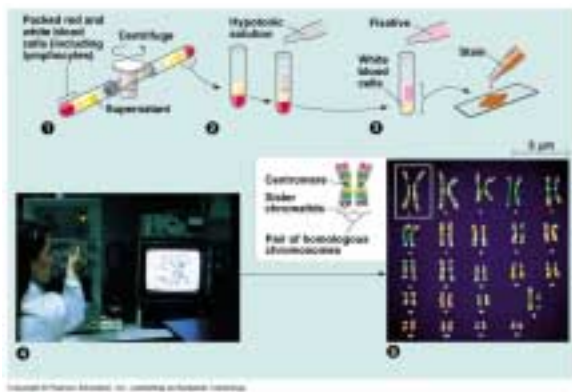
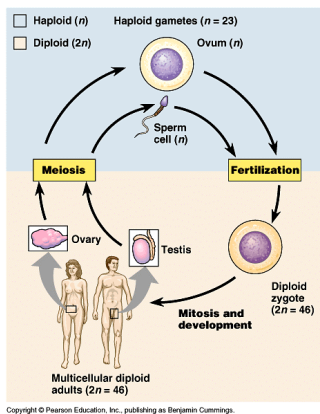


Figure 13.4 The human life cycle

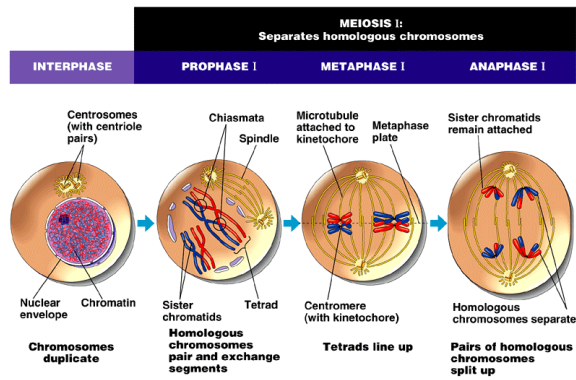


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MEIOSIS I

- **DIPLOID PARENT CELL (2N)**
- **DIVIDES TO PRODUCE 2 PROGENY CELLS, WITH PACKETS OF CHROMATIDS**
- **PROPHASE I; HOMOLOGS LINE-UP, SYNAPSIS, CROSSING OVER OF CHROMOSOMES**

Figure 13.7 The stages of meiotic cell division: Meiosis I



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MEIOSIS I - CONT'D

- **METAPHASE I:**
- **CHROMOSOMES LINE UP AT CENTER**
- **ANAPHASE I:**
- **HOMOLOGOUS CHROMOSOMES ARE PAIRED, CHROMOSOMES SEPARATE**
- **TELOPHASE I:**
- **CELLS REORGANIZE**

Figure 13.7 The stages of meiotic cell division: Meiosis II

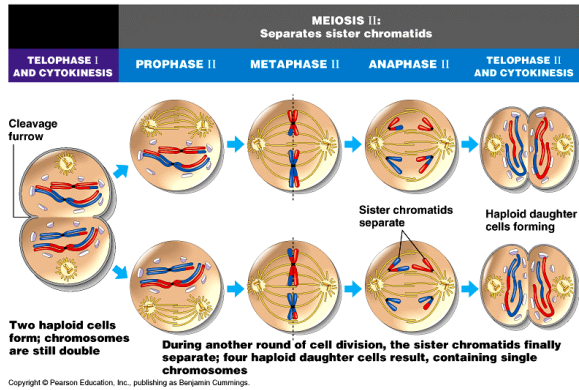
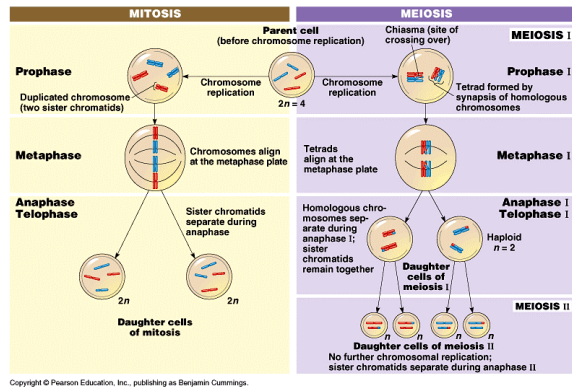


Figure 13.8 A comparison of mitosis and meiosis



MEIOSIS II

- **SISTER HOMOLOGS SEPARATE**
- **KINETOCHORE SPLITS AT ANAPHASE II**
- **CHROMOSOMES MIGRATE**
- **CYTOKINESIS, CELLS DIVIDE**
