

# AP Biology Ch. 10 Meiosis and Sexual Life Cycles

## Key concepts

- 10.1 Offspring acquire genes from parents by inheriting chromosomes.
- 10.2 Fertilization and meiosis alternate in sexual life cycles.
- 10.3 Meiosis reduces the number of chromosome sets from diploid to haploid.
- 10.4 Genetic variation produced in sexual life cycles contributes to evolution.
1. Heredity is the transmission of traits from one generation to the next.
  2. Variation - exists in populations that reproduce sexually, offspring are not identical to their parents.
  3. Genetics is the scientific study of heredity and hereditary variation.
  4. Each parent passes on 23 chromosomes to their offspring. These chromosomes are made up of many sections of DNA called genes.
  5. All of an individual's genes are called their genome.
  6. In animals and plants, reproductive cells called gametes are the vehicles that transmit genes from one generation to the next.
  7. Except for small amounts of DNA in the mitochondria and chloroplasts, the DNA of a eukaryotic cell is packaged into chromosomes in the nucleus.
  8. One chromosome has between several hundred to a few thousand genes.
  9. A gene's specific location along the length of a chromosome is called the gene's locus (loci).
  10. Asexual reproduction is when a single individual gives rise to offspring:
    - These offspring are identical to their parent.
    - This type of reproduction occurs through the process of mitosis
    - Variation can occur through mutations
    - Some multi-celled organisms can reproduce this way through cloning (hydra)

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**Johnson, Judith Stewart**



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**Karp's Cell Biology, Global Edition** Gerald Karp, Janet Iwasa, Wallace Marshall, 2018-01-11 Karp's Cell Biology Global Edition continues to build on its strength at connecting key concepts to the experiments that reveal how we know what we know in the world of Cell Biology This classic text explores core concepts in considerable depth often adding experimental detail It is written in an inviting style to assist students in handling the plethora of details encountered in the Cell Biology course In this edition two new co authors take the helm and help to expand upon the hallmark strengths of the book improving the student learning experience

**The Pearson General Studies Manual 2009, 1/e** Showick Thorpe Edgar Thorpe, 2009 This latest edition of The Pearson General Studies Manual continues to provide exhaustive study material for the General Studies paper of the UPSC Civil Services Preliminary Examination This student friendly book has been completely revised thoroughly updated and carefully streamlined and is strictly exam centric In this new edition a large number of new boxes and marginalia with additional and relevant information have been added to provide cutting edge information to the aspirant Readers will find that important facts and information have been presented in the form of well structured tables and lists

**Biology** Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter

Study Guide Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities

**Biology** Teresa Audesirk, Gerald Audesirk, Bruce E. Byers, 2004-06 For students without an Internet connection all questions and review materials from the Companion Website are included in the printed Student Study Companion

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