

# Study Guide - Unit 5 AP Biology

Created by Ria Wu

Explain the connection between alleles and genetic variation and provide an example.

Genetics is the study of \_\_\_\_\_ and \_\_\_\_\_.

Traits are passed from parent to offspring through \_\_\_\_\_.

What are homologous chromosomes?

Provide three differences between asexual and sexual reproduction.

The \_\_\_\_\_ pair of chromosomes in a \_\_\_\_\_ are the \_\_\_\_\_-determining chromosomes.

Match the correct genetic disorder to the characteristics.

- |                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| 1. Trisomy 21             | A. Due to an extra X chromosome in the sex-determining chromosomes        |
| 2. Turner's Syndrome      | B. A high pitched "cat-like" cry                                          |
| 3. Cri du Chat            | C. People with this disorder are much more susceptible X-linked disorders |
| 4. Klinefelter's Syndrome | D. Due to an extra chromosome in the 21st chromosome pair                 |

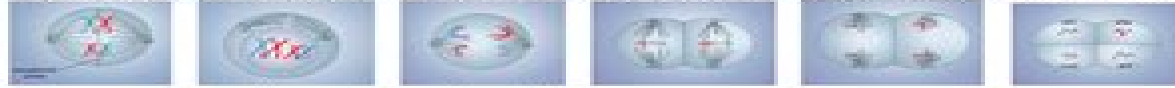
How many pairs of chromosomes are in a karyotype?

List three differences between gametic and somatic cells.

The end result of meiosis is \_\_\_\_\_.

What is a tetrad?

Describe what the phase of meiosis the photos are depicting and describes what happens in that phase.



A homozygous trait means that the alleles are \_\_\_\_\_.

A heterozygous trait means that the alleles are \_\_\_\_\_.

Why did Mendel use true-breeding plants in his experiments?

Label the first pedigree. In the next pedigrees, label them as autosomal recessive, autosomal dominant, or sex-linked.



Match the correct Principles of Heredity to its descriptions.

- |                                  |                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Law of Segregation            | A. This law states that the inheritance of one gene does not affect the inheritance of another gene.                                                                                      |
| 2. Law of Independent Assortment | B. This law states that alleles are segregated during the inheritance of alleles. A mother can only pass down one allele and a father can only pass down one allele for a specific trait. |
| 3. Law of Dominance              | C. This law states that the dominant trait will cover the effects of the recessive trait.                                                                                                 |

Which of the following statements is correct?

- |                                              |                                            |                                                               |                                                              |
|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| A. Mitochondrial DNA is maternally inherited | B. Chloroplast DNA is maternally inherited | C. Chloroplast and Mitochondrial DNA is maternally inherited. | D. Mitochondrial and Chloroplast DNA is paternally inherited |
|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|

Match the Degree of Dominance to its definition.

- |                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| 1. Complete Dominance   | A. The dominant and recessive traits are both fully expressed in the phenotype. |
| 2. Incomplete Dominance | B. The dominant trait completely masks the effects of the recessive allele.     |
| 3. Codominant Dominance | C. The dominant trait and the recessive trait are expressed, but not fully      |

X-inactivation is when one of the \_\_\_\_\_ chromosomes in the \_\_\_\_\_ cell becomes \_\_\_\_\_ and turns into a \_\_\_\_\_.

Skin Color is an example of \_\_\_\_\_.

Genetic recombination is when an offspring is a \_\_\_\_\_ or \_\_\_\_\_ phenotype from the \_\_\_\_\_.

Why are linked genes more likely to be parental types and why are unlinked genes more likely to be recombinant types?

What is the given value that Collegeboard provides for the p-value in a Goodness of Fit test?

- |         |         |         |         |
|---------|---------|---------|---------|
| A. 0.05 | B. 0.01 | C. 0.50 | D. 0.10 |
|---------|---------|---------|---------|

The \_\_\_\_\_ of two organisms can be the same, but the \_\_\_\_\_ can impact the \_\_\_\_\_ of those organisms.

What do you do when the chi-square value is less than your critical value?

- |                           |                                   |                               |                                   |
|---------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| A. Reject null hypothesis | B. Fail to reject null hypothesis | C. Accept the null hypothesis | D. Fail to reject null hypothesis |
|---------------------------|-----------------------------------|-------------------------------|-----------------------------------|

Match the disease to its characteristics ( more than one answer)

- |                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| 1. Colorblindness     | A. Causes an abnormal amount of hemoglobin in an afflicted cell. |
| 2. Hemophilia         | B. Causes a fatal buildup of fats or lipids in the brain         |
| 3. Tay Sachs          | C. An inability to clot blood properly                           |
| 4. Sickle Cell Anemia | D. An inability to see colors properly                           |
|                       | E. Caused by a mutation in the HEXA gene                         |
|                       | F. Caused by a mutation in the HBB gene                          |

What was the answer to the example problem involving the multiplication rule?

The addition rule finds the probability of two \_\_\_\_\_

What was the answer to the example problem involving the addition rule?

\_\_\_\_\_ events occurring.

The multiplication rule finds the probability of two \_\_\_\_\_ events occurring.

# 33 Invertebrates Ap Biology Study Guide

**Javier Oscoz, David Galicia, Rafael  
Miranda**



### 33 Invertebrates Ap Biology Study Guide:

*Fisheries Review*, 1988      *Identification Guide of Freshwater Macroinvertebrates of Spain* Javier Oscoz, David

Galicia, Rafael Miranda, 2011-06-27 As a result of the European Commission's concern for the status of continental waters and as a clear reflection of the notion of water as heritage to be conserved in the year 2000 the Water Framework Directive 2000/60/CE was enacted its goal being to establish a framework to protect water and the different aquatic ecosystems by requiring the Member States to achieve a good ecological status in all their waters by 2015 Like all ecosystems freshwater ecosystems undergo physical chemical and energy related changes both of natural and anthropogenic origin These disturbances affect the organisms living in them and those who utilize their resources Therefore evaluating these changes has become a very important task in order to better understand aquatic systems The study and analysis of the ecological status of these ecosystems in relation to their conservation status and water quality is thus a fundamental tool for a more efficient and rational management of their resources that is a management that does not threaten the ecosystem The present guide for the identification of Spanish freshwater macroinvertebrates aims to facilitate the job of those who go to great lengths to identify them in order to then determine biotic indices It is not the aim of this book to serve as a zoological treaty nor does it claim to add new information on the biology or the ecology of the taxa covered This book is simply a working tool explicitly designed to facilitate the identification of the Spanish macroinvertebrates and the subsequent computing of biotic indices

*Oceanography and Marine Biology* S. J. Hawkins, 2022-12-08 *Oceanography and Marine Biology An Annual Review* remains one of the most cited sources in marine science and oceanography The ever increasing interest in work in oceanography and marine biology and its relevance to global environmental issues especially global climate change and its impacts creates a demand for authoritative refereed reviews summarizing and synthesizing the results of both historical and recent research This Volume celebrates 60 years of OMBAR over which time it has been an essential reference for research workers and students in all fields of marine science The peer reviewed contributions in Volume 60 are available to read Open Access via this webpage and on OAPEN If you are interested in submitting a review for consideration for publication in OMBAR please email the Editor in Chief Stephen Hawkins S J Hawkins soton.ac.uk for Volume 61 For Volume 62 onwards please email the new co Editors in Chief Dr Peter Todd dbspatnus.edu.sg and Dr Bayden Russell brussell.hku.hk Volume 60 features an editorial on the UN Decade of Ocean Science and goes on to consider such diverse topics as Cenozoic tropical marine biodiversity blue carbon ecosystems in Sri Lanka marine litter and microplastics in the Western Indian Ocean and the ecology and conservation status of the family Syngnathidae in southern and western Africa This volume also contains a retrospective Prologue on the evolution of OMBAR and pays tribute to one of its early Editors in Chief Margaret Barnes by providing an update on her review in OMBAR of the stalked barnacle *Pollicipes* Supplementary online videos as well as additional Tables and Appendices are available on the Support Tab of the book's Routledge webpage An international

Editorial Board ensures global relevance and expert peer review with editors from Australia Canada Hong Kong Ireland Singapore and the UK The series volumes find a place in the libraries of not only marine laboratories and oceanographic institutes but also universities worldwide *Invertebrates in Freshwater Wetlands* Darold Batzer, Dani Boix, 2016-02-05 Wetlands are among the world's most valuable and most threatened habitats and in these crucially important ecosystems the invertebrate fauna holds a focal position Most of the biological diversity in wetlands is found within resident invertebrate assemblages and those invertebrates are the primary trophic link between lower plants and higher vertebrates e.g. amphibians fish and birds As such most scientists managers consultants and students who work in the world's wetlands should become better informed about the invertebrate components in their habitats of interest Our book serves to fill this need by assembling the world's most prominent ecologists working on freshwater wetland invertebrates and having them provide authoritative perspectives on each the world's most important freshwater wetland types The initial chapter of the book provides a primer on freshwater wetland invertebrates including how they are uniquely adapted for life in wetland environments and how they contribute to important ecological functions in wetland ecosystems The next 15 chapters deal with invertebrates in the major wetlands across the globe rock pools alpine ponds temperate temporary ponds Mediterranean temporary ponds turloughs peatlands permanent marshes Great Lakes marshes Everglades springs beaver ponds temperate floodplains neotropical floodplains created wetlands waterfowl marshes each chapter written by groups of prominent scientists intimately knowledgeable about the individual wetland types Each chapter reviews the relevant literature provides a synthesis of the most important ecological controls on the resident invertebrate fauna and highlights important conservation concerns The final chapter synthesizes the 15 habitat based chapters providing a macroscopic perspective on natural variation of invertebrate assemblage structure across the world's wetlands and a paradigm for understanding how global variation and environmental factors shape wetland invertebrate communities **Invertebrate Learning and Memory** Randolph Menzel, Paul Benjamin, 2013-06-18 Understanding how memories are induced and maintained is one of the major outstanding questions in modern neuroscience This is difficult to address in the mammalian brain due to its enormous complexity and invertebrates offer major advantages for learning and memory studies because of their relative simplicity Many important discoveries made in invertebrates have been found to be generally applicable to higher organisms and the overarching theme of the proposed will be to integrate information from different levels of neural organization to help generate a complete account of learning and memory Edited by two leaders in the field *Invertebrate Learning and Memory* will offer a current and comprehensive review with chapters authored by experts in each topic The volume will take a multidisciplinary approach exploring behavioral cellular genetic molecular and computational investigations of memory Coverage will include comparative cognition at the behavioral and mechanistic level developments in concepts and methodologies that will underlie future advancements and mechanistic examples from the most important vertebrate systems

nematodes molluscs and insects Neuroscience researchers and graduate students with an interest in the neural control of cognitive behavior will benefit as will as will those in the field of invertebrate learning Presents an overview of invertebrate studies at the molecular cellular neural levels and correlates findings to mammalian behavioral investigations Linking multidisciplinary approaches allows for full understanding of how molecular changes in neurons and circuits underpin behavioral plasticity Edited work with chapters authored by leaders in the field around the globe the broadest most expert coverage available Comprehensive coverage synthesizes widely dispersed research serving as one stop shopping for comparative learning and memory researchers **Sport Fishery Abstracts** ,1988 *Invertebrate Medicine* Gregory A. Lewbart,2022-04-19 Winner of the Textbook Academic Authors Association 2024 McGuffey Longevity Award for Life Sciences Presented in full color for the first time *Invertebrate Medicine* is the definitive resource on husbandry and veterinary medicine in invertebrate species Presenting authoritative information applicable to both in human care and wild invertebrates this comprehensive volume addresses the medical care and clinical condition of most important invertebrate species providing biological data for sponges jellyfish anemones snails sea hares corals cuttlefish squid octopuses clams oysters crabs crayfish lobsters shrimp hermit crabs spiders scorpions horseshoe crabs honey bees butterflies beetles sea stars sea urchins sea cucumbers various worms and many other invertebrate groups The extensively revised third edition contains new information and knowledge throughout offering timely coverage of significant advances in invertebrate anesthesia analgesia diagnostic imaging surgery and welfare New and updated chapters incorporate recent publications on species including crustaceans jellyfishes corals honeybees and a state of the science formulary In this edition the authors also discuss a range of topics relevant to invertebrate caretaking including conservation laws and regulations euthanasia diagnostic techniques and sample handling Edited by a leading veterinarian and expert in the field *Invertebrate Medicine Third Edition* Provides a comprehensive reference to all aspects of invertebrate medicine Offers approximately 200 new pages of expanded content Features more than 400 full color images and new contributions from leading veterinarians and specialists for each taxon Includes updated chapters of reportable diseases neoplasia sources of invertebrates and supplies and a comprehensive formulary The standard reference text in the field *Invertebrate Medicine Third Edition* is essential reading for practicing veterinarians veterinary students advanced hobbyists aquarists and aquaculturists and professional animal caretakers in zoo animal exotic animal and laboratory animal medicine *The Coleopterists' Bulletin* ,2005

*Invertebrate Zoology* Robert L. Wallace,Walter Kingsley Taylor,1997 Appropriate for a laboratory course in invertebrate zoology *Invertebrate Zoology* continues to be the most current up to date manual available The popular phylum by phylum approach has been retained providing a solid conceptual framework for advanced work in behavior ecology physiology and related subjects Numerous exercises for studying the structure and function of invertebrates are used To complete each exercise students must make observations conduct investigations and ask and answer questions all of which helps them gain

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Connecticut Wildlife Geoffrey A. Hammerson, 2004 The best

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