

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.

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Practical Guide to ICP-MS and Other Atomic Spectroscopy Techniques Robert Thomas, 2023-09-29 Written by one of the very first practitioners of ICP MS Practical Guide to ICP MS and Other Atomic Spectroscopy Techniques A Tutorial for Beginners presents ICP MS in a completely novel and refreshing way By comparing it with other complementary atomic spectroscopy AS techniques it gives the trace element analysis user community a glimpse into why the technique was first developed and how the application landscape has defined its use today 40 years after it was first commercialized in 1983 What's new in the 4th edition Updated chapters on the fundamental principles and applications of ICP MS New chapters on complementary AS techniques including AA AF ICP OES MIP AES XRF XRD LIBS LALI TOFMS Strategies for reducing errors and contamination with plasma spectrochemical techniques Comparison of collision and reaction cells including triple multi quad systems Novel approaches to sample digestion Alternative sample introduction accessories Comprehensive glossary of terms used in AS New vendor contact information The book is not only suited to novices and beginners but also to more experienced analytical scientists who want to know more about recent ICP MS developments and where the technique might be heading in the future Furthermore it offers much needed guidance on how best to evaluate commercial AS instrumentation and what might be the best technique based on your lab's specific application demands I feel honored to have been asked to deliver the Foreword for this book which is suited not only for beginners but also for more experienced analytical scientists who want to know the advances in plasma spectrochemistry instrumentation and related future opportunities Dr Heidi Goenaga Infante LGC Science Fellow Chief Scientist National Measurement Laboratory Visiting Professor University of Strathclyde UK

Measuring Heavy Metal Contaminants in Cannabis and Hemp Robert J. Thomas, 2020-09-29 The surge of interest in cannabis based medicinal products has put an extremely high demand on testing capabilities particularly for contaminants such as heavy metals which are naturally taken up through the roots of the plants from the soil growing medium and fertilizers but can also be negatively impacted by the grinding equipment and extraction distillation process Unfortunately many state regulators do not have the necessary experience and background to fully understand all the safety and toxicological issues regarding the cultivation and production of cannabis and hemp products on the market today Measuring Heavy Metal Contaminants in Cannabis and Hemp offers a comprehensive guide to the entire cannabis industry for measuring elemental contaminants in cannabis and hemp For testing labs it describes fundamental principles and practical capabilities of ICP MS and other AS techniques for measuring heavy metals in cannabis For state regulators it compares maximum contaminant limits of heavy metals with those for federally regulated pharmaceutical materials For cultivators and processors it helps them to better understand the many sources of heavy metals in cannabis And for consumers of medical cannabis it highlights the importance of choosing cannabis products that are safe to use Other key topics include The role of other analytical techniques for the comprehensive testing of cannabis products Tips to optimize

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Lal,Ronald F. Follett,2009 This book is about the concept of the Greenhouse Effect is more than a century old but today the observed and predicted climate changes This second edition of *Soil Carbon Sequestration and the Greenhouse Effect* is essential reading for understanding the processes properties and practices affecting the soil carbon pool and its dynamics

American Laboratory ,2008 *Lead, Mercury and Cadmium in the Aquatic Environment* Rachel Ann

Hauser-Davis,Natalia Soares Quinete,Leila Soledade Lemos,2023-04-13 This book presents an integrated and holistic discussion on cadmium lead and mercury toxicity in aquatic environments expanding general concepts on chemical speciation effects and exploring specific environmental toxicological issues exposure routes and bioanalytical approaches for their determination and assessments on their intracellular deleterious effects It contains worldwide and regional aspects on cadmium lead and mercury occurrence fate and toxicity addressing key environmental exposure and health risk concerns to both humans and aquatic organisms Our book is of interest to anyone conducting research in the broad fields of oceanography geochemistry ecotoxicology and environmental and public health *Materials Performance* ,1999 Journal

of the American Veterinary Medical Association American Veterinary Medical Association,2009 Vols for 1915 49 and 1956 include the Proceedings of the annual meeting of the association *CertiPrep - PMI-PMP Exam Prep Book 2025-2026*

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Surface Water Modeling Ching Jen Chen,2007

Parametric Study and Optimization of Ceramic

Stereolithography Kahn Chia Wu,2005

Northwest Science ,2008

Advancements in Algal Biofuels Research -

Recent Evaluation of Algal Biomass Production and Conversion Methods of into Fuels and High Value

Co-products Umakanta Jena,S. Kent Hoekman,2017-05-18 Algae biomass has enormous potential to produce fuels and value

added products Algae derived biofuels and bioproducts offer great promise in contributing to U S energy security and in mitigating the environmental concerns associated with conventional fuels Algae s ability to grow in low quality water

wastewater and to accumulate lipids has encouraged scientists to investigate algae as a medium for wastewater treatment

and a potential source of fuel and bioproducts There are growing demands for biomass based transportation fuels including

biodiesel bio oil biomethane biohydrogen and other high value products nutraceuticals proteins omega 3 etc Algae can help

address these needs The topic of algae energy includes the production and characterization of algae cultures conversion into

fuel feedstocks and high value products and optimization of product isolation and use In view of the increasing efforts in

algae biomass production and conversion into energy and high value products the current research topic covers important

aspects of algal strain selection culture systems inorganic carbon utilization lipid metabolism and quality biomass harvesting

extraction of lipids and proteins and thermochemical conversion of algal feedstocks into biocrude *Rare Earths and*

Actinides Renato G. Bautista,Brajendra Mishra,2000 From the 2000 TMS Annual Meeting Exhibition this symposia reported

on state of the art advances in the sciences emerging technologies and present and potential applications of the rare earths

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web schadstoffe chemische elemente oder chemische verbindungen die bei ihrer einwirkung auf organismen oder Ökosysteme umweltgifte deren vitalität mindern oder sie zum absterben bringen zu den natürlich vorkommenden schadstoffen gehören gifte und radioaktive substanzen radioaktivität strahlenbelastung

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web thalten sein es sind chemische stoffe die den menschen oder die umwelt schädigen können einige davon kön nen krebserregend oder erbgut verändernd sein oder die fortpflanzung beeinträchtigen tipps zur vermeidung von schadstoffen in ge brauchsgegenständen nutzen sie die app scan4chem vor dem kauf bevorzugen sie

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