

## Chapter 9-2 Genetic Crosses

### Genotype and Phenotype

- An organism's genetic makeup is its genotype
- The genotype consists of the alleles that the organism inherits
  - The genotype is represented by Pp or PP
- An organism's physical appearance is its phenotype
  - The phenotype of a Pp or PP plant is purple flowers
- When both alleles of a pair are alike the organism is said to be homozygous (PP or pp)
- When both alleles of a pair are different the organism is said to be heterozygous (Pp)

### Probability

- The likelihood that a specific even will occur
- Can be expressed in percentages, fractions, or ratios
- The results are more likely to occur when there are many trials

### Monohybrid Crosses

- A cross between organisms in which only one characteristic is being tracked
- Punnett square is used to predict the probability of inherited traits
- Example 1: Homozygous x Homozygous
  - Cross between two true-breeding organisms (PP x pp)
  - All organisms have Pp genotype and exhibit the dominant allele
- Example 2: Homozygous x Heterozygous
  - Cross between PP and Pp
  - 50% probability of Pp offspring; 50% probability of PP offspring (this is with EACH gamete produced)
  - all offspring will exhibit the dominant allele
- Example 3: Heterozygous x Heterozygous
  - Cross between Pp and Pp
  - 25% probability of PP; 50% probability Pp; 25% probability pp
  - 75% of the offspring will exhibit the dominant allele; 25% will exhibit the recessive allele
- Example 4: Testcross
  - If you are unsure of an individuals genotype, you could perform a testcross with an individual of homozygous recessive genotype
  - If a recessive allele is expressed in any of the offspring, you would be able to identify that the unknown genotype would be heterozygous

### Incomplete Dominance

- Occurs when the phenotype of a heterozygote is an intermediate between the phenotypes of the parents
- Ex: red flowers crossed with white flowers produce pink flowers

## Section 9 2 Review Genetic Crosses Answers

**Mike Jess**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Mike Jess'.

## Section 9 2 Review Genetic Crosses Answers:

**Primary Science: Knowledge and Understanding** Graham Peacock, John Sharp, Rob Johnsey, Debbie Wright, 2024-04-14 All the subject knowledge you need to teach primary science The essential subject knowledge text for primary science Secure subject knowledge and understanding is the foundation of confident creative and effective teaching This comprehensive text covering the whole primary curriculum includes interactive tasks self assessment questions and links to other resources in all chapters Primary science matters This 10th edition includes links to the ITT Core Content Framework and new content on children s common misconceptions in science Genetics Daniel L. Hartl, Elizabeth W. Jones, 2005 Biological Sciences **Genetics** Daniel Hartl, Maryellen Ruvolo, 2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation *Index Medicus* , 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world s leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information A Textbook of CBSE Biology For Class XII (Revised Edition) SARITA AGGARWAL, Concise and accurate treatment of the subject matter Comparative tables to highlight the differences between important terms Profusely illustrated with examples and well labelled diagrams All the chapters contain new material as per the latest syllabus *Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria, 2 Volume Set* Frans J. de Bruijn, 2016-09-06 Bacteria in various habitats are subject to continuously changing environmental conditions such as nutrient deprivation heat and cold stress UV radiation oxidative stress dessication acid stress nitrosative stress cell envelope stress heavy metal exposure osmotic stress and others In order to survive they have to respond to these conditions by adapting their physiology through sometimes drastic changes in gene expression In addition they may adapt by changing their morphology forming biofilms fruiting bodies or spores filaments Viable But Not Culturable VBNC cells or moving away from stress compounds via chemotaxis Changes in gene

expression constitute the main component of the bacterial response to stress and environmental changes and involve a myriad of different mechanisms including alternative sigma factors bi or tri component regulatory systems small non coding RNA s chaperones CHRIS Cas systems DNA repair toxin antitoxin systems the stringent response efflux pumps alarmones and modulation of the cell envelope or membranes to name a few Many regulatory elements are conserved in different bacteria however there are endless variations on the theme and novel elements of gene regulation in bacteria inhabiting particular environments are constantly being discovered Especially in pathogenic bacteria colonizing the human body a plethora of bacterial responses to innate stresses such as pH reactive nitrogen and oxygen species and antibiotic stress are being described An attempt is made to not only cover model systems but give a broad overview of the stress responsive regulatory systems in a variety of bacteria including medically important bacteria where elucidation of certain aspects of these systems could lead to treatment strategies of the pathogens Many of the regulatory systems being uncovered are specific but there is also considerable cross talk between different circuits Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria is a comprehensive two volume work bringing together both review and original research articles on key topics in stress and environmental control of gene expression in bacteria Volume One contains key overview chapters as well as content on one two three component regulatory systems and stress responses sigma factors and stress responses small non coding RNAs and stress responses toxin antitoxin systems and stress responses stringent response to stress responses to UV irradiation SOS and double stranded systems repair systems and stress adaptation to both oxidative and osmotic stress and desiccation tolerance and drought stress Volume Two covers heat shock responses chaperonins and stress cold shock responses adaptation to acid stress nitrosative stress and envelope stress as well as iron homeostasis metal resistance quorum sensing chemotaxis and biofilm formation and viable but not culturable VBNC cells Covering the full breadth of current stress and environmental control of gene expression studies and expanding it towards future advances in the field these two volumes are a one stop reference for non medical molecular geneticists interested in gene regulation under stress

**Health Care Management and the Law** Donna K. Hammaker, Thomas M. Knadig, 2017-03-02 Health Care Management and the Law 2nd Edition is a comprehensive practical health law text relevant to students seeking the basic management skills required to work in health care organizations as well as students currently working in health care organizations This text is also relevant to those general health care consumers who are simply attempting to navigate the complex American health care system Every attempt is made within the text to support health law and management theory with practical applications to current issues

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Eric Strauss, Marylin Lisowski, 2000 Immune Regulations in Reproductive Organs and Organ Transplant Lei Huang, Andrew L. Mellor, Anatolij Horuzsko, Sha Wu, 2022-04-18 **The Psychology of Personnel Selection** Tomas Chamorro-Premuzic, Adrian Furnham, 2010-01-14 This engaging and thought provoking text introduces the main techniques theories research and debates in personnel selection helping students and practitioners to identify the major predictors of job performance as well as the most suitable methods for assessing them Tomas Chamorro Premuzic and Adrian Furnham provide a comprehensive critical and up to date review of the constructs we use in assessing people intelligence personality creativity leadership and talent and explore how these help us to predict differences in individuals performance Covering selection techniques such as interviews references biographical data judgement tests and academic performance The Psychology of Personnel Selection provides a lively discussion of both the theory behind the use of such techniques and the evidence for their usefulness and validity The Psychology of Personnel Selection is essential reading for students of psychology business studies management and human resources as well as for anyone involved in selection and assessment at work Princeton Review PCAT Prep, 2nd Edition The Princeton Review, 2021-11-16 PERFECT YOUR PCAT SCORE WITH THE PRINCETON REVIEW S PCAT PREP 2ND EDITION FULLY REVISED TO ALIGN WITH THE NEWEST EXAM Conquer the Pharmacy College Admission Test with the help of this essential PCAT resource book With comprehensive reviews of each section test strategy and hundreds of practice questions all from the test prep experts at The Princeton Review you ll be able to face test day with confidence Techniques That Actually Work Step by step problem solving guides for the toughest question types Tips for pacing yourself and guessing logically Key strategies to help you work smarter not harder Everything You Need to Achieve a High Score In depth coverage of all PCAT subtests writing biology chemistry critical reading and quantitative reasoning Illustrations diagrams and tables throughout all content chapters End of chapter review summaries highlighting critical info and formulas Tear out study sheet at the end of the book for key concepts Practice Your Way to Excellence 2 full length online practice tests with detailed answer explanations and score reports 130 practice questions across all chapter drills in the book Online extras including additional drill questions and a study plan *Cumulated Index Medicus* ,1966 *Integrative Medicine, eBook* David P. Rakel, Vincent Minichiello, 2022-08-12 Written by physicians who are experts in both traditional and complementary medicine Integrative Medicine 5th Edition uses a clinical disease oriented approach to safely and effectively incorporate alternative therapies into primary care practice Drawing on available scientific evidence and the authors first hand experiences it covers therapies such as botanicals supplements mind body lifestyle choices nutrition exercise spirituality and other integrative medicine modalities This highly regarded reference offers

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