

GENETICS: X LINKED GENES

****In fruit flies, eye color is a sex linked trait. Red is dominant to white ****

1. What are the sexes and eye colors of flies with the following genotypes:

$X^R X^r$ Red $X^R Y$ Red $X^r X^r$ White
 $X^R X^R$ Red $X^r Y$ White

2. What are the genotypes of these flies:

white eyed, male $X^r Y$ red eyed female (heterozygous) $X^R X^r$
 white eyed, female $X^r X^r$ red eyed, male $X^R Y$

3. Show the cross of a white eyed female $X^r X^r$ with a red-eyed male $X^R Y$.

	X^R	X^r
X^r	$X^R X^r$	$X^r X^r$
Y	$X^r Y$	$X^r Y$

4. Show a cross between a pure red eyed female and a white eyed male.

What are the genotypes of the parents: $X^R X^R$ & $X^r Y$

	X^R	X^r
X^R	$X^R X^R$	$X^R X^r$
Y	$X^R Y$	$X^r Y$

How many offspring are:

- white eyed, male 0
- white eyed, female 0
- red eyed, male 50%
- red eyed, female 50%

5. Show the cross of a red eyed female (heterozygous) and a red eyed male. What are the genotypes of the parents? $X^R X^r$ & $X^R Y$

	X^R	X^r
X^R	$X^R X^R$	$X^R X^r$
Y	$X^R Y$	$X^r Y$

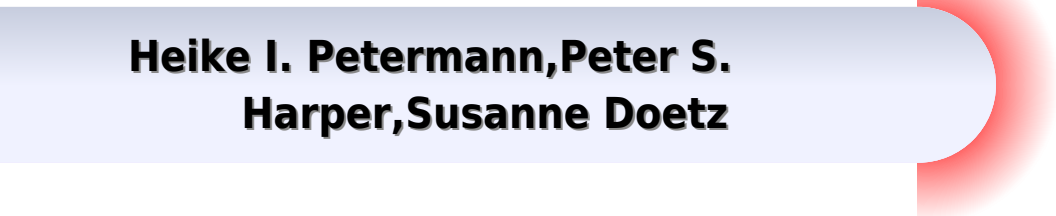
How many offspring are:

- white eyed, male 25%
- white eyed, female 0
- red eyed, male 25%
- red eyed, female 50%

Math: What if in the above cross, 100 males were produced and 200 females. How many total red-eyed flies would there be? 250

The Origin Of Genetics Answer Key

**Heike I. Petermann, Peter S.
Harper, Susanne Doetz**



The Origin Of Genetics Answer Key:

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Doing Integrated History and Philosophy of Science: A Case Study of the Origin of Genetics Yafeng Shan,2020-08-17 This book offers an integrated historical and philosophical examination of the origin of genetics The author contends that an integrated HPS analysis helps us to have a better understanding of the history of genetics and sheds light on some general issues in the philosophy of science This book consists of three parts It begins with historical problems revisiting the significance of the work of Mendel de Vries and Weldon Then it turns to integrated HPS problems developing an exemplar based analysis of the development and the progress in early genetics Finally it discusses philosophical problems conceptual change evidence and theory choice Part I lays out a new historiography serving as a basis for the discussions in part II and part III Part II introduces a new integrated HPS method to analyse and interpret the historiography in Part I and to re examine the philosophical issues in Part III Part III develops new philosophical accounts which will in turn make a better sense of the history of scientific practice more generally This book provides a practical defence of integrated HPS the best way to defend integrated HPS is to do it

History of Human Genetics Heike I. Petermann,Peter S. Harper,Susanne Doetz,2017-05-10 Written by 30 authors from all over the world this book provides a unique overview of exciting discoveries and surprising developments in human genetics over the last 50 years The individual contributions based on seven international workshops on the history of human genetics cover a diverse range of topics including the early years of the discipline gene mapping and diagnostics Further they discuss the status quo of human genetics in different countries and highlight the value of genetic counseling as an important subfield of medical genetics

Essential Genetics and Genomics Daniel L. Hartl,2018-10-31 Essential Genetics and Genomics is the ideal textbook for the shorter less comprehensive genetics course It presents carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation expression and regulation

The Origins of Modern Humans Fred H. Smith,James C. Ahern,2013-07-09 This update to the award winning The Origins of Modern Humans A World Survey of the Fossil Evidence covers the most accepted common theories concerning the emergence of modern Homo sapiens adding fresh insight from top young scholars on the key new discoveries of the past 25 years The Origins of Modern Humans Biology Reconsidered allows field leaders to discuss and assess the assemblage of hominid fossil material in each region of the world during the Pleistocene epoch It features new fossil and molecular evidence such as the evolutionary inferences drawn from assessments of modern humans and large segments of the Neandertal genome It also addresses the impact of digital imagery and the more sophisticated morphometrics that have entered the analytical fray since 1984 Beginning with a thoughtful introduction by the authors on modern human origins the book offers such insightful chapter contributions as Africa The Cradle of Modern People

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everyone seeking to make sense of the controversies and shifts in the field of genetics in the second decade of the twenty first century Genetics, Mass Media and Identity Tudor Parfitt,Yulia Egorova,2006-04-18 This is the first book to explore the effect of genetic research on the Lemba Judaising community of Southern Africa and the phenomenon of Israelite identity The science of genetics as relayed by the media is perceived by laymen as being irreproachably objective hard science its disinterested scientific findings appear immensely impressive and may therefore act as a powerful catalyst for change In this case an oral tradition cherished by many of the Lemba that they are of Jewish origin appears to be supported by recent DNA testing which has deeply affected the narrative and religious identity of the group and the way the tribe is perceived in the Western world International in appeal this topical text brings together cutting edge research on the social cultural and ethical implications of genetics and the study of Judaising movements across the world This book will be of interest to researchers and students of Jewish history genetic anthropology race and ethnicity studies and religious and cultural studies

Bacterial Genetics and Genomics Lori A.S. Snyder,2020-03-25 Our understanding of bacterial genetics has progressed as the genomics field has advanced Genetics and genomics complement and influence each other they are inseparable Under the novel insights from genetics and genomics once believed borders in biology start to fade biological knowledge of the bacterial world is being viewed under a new light and concepts are being redefined Species are difficult to delimit and relationships within and between groups of bacteria the whole concept of a tree of life is hotly debated when dealing with bacteria The DNA within bacterial cells contains a variety of features and signals that influence the diversity of the microbial world This text assumes readers have some knowledge of genetics and microbiology but acknowledges that it can be varied Therefore the book includes all of the information that readers need to know in order to understand the more advanced material in the book **Ebook: Biology** BROOKER,2014-09-16 Ebook Biology *Study Guide for Maternal Child Nursing Care - E-Book* Shannon E. Perry,Marilyn J. Hockenberry,Deitra Leonard Lowdermilk,David Wilson,2014-03-12 Master content from the textbook with this helpful study tool Designed to accompany Perry s Maternal Child Nursing Care 4th Edition this workbook will assist students in understanding and applying material from each chapter in the text

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