

Lab 11

HEREDITY AND MENDELIAN GENETICS

Monohybrid Problems with Complete Dominance

1. For each of the following diploid genotypes, indicate the possible genotypes of the gametes.

Diploid genotype	Gamete genotype
FF	<u>F</u>
ff	<u>f</u>
Ff	<u>F</u> & <u>f</u>

2. During fertilization, two gamete nuclei fuse, and the diploid condition is restored. Give the diploid genotype produced by fusion of the following gamete genotypes.

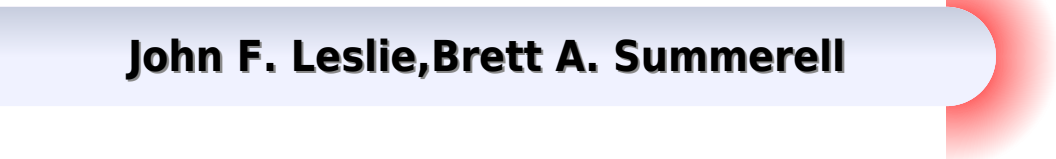
Gamete genotype X Gamete genotype	→	Diploid genotype
f	f	<u>ff</u>
F	f	<u>Ff</u>
F	F	<u>FF</u>

3. Free (F) and attached (f) earlobes
- Suppose a man has the genotype FF. What is the genotype of his gamete (sperm) nuclei? F
 - Suppose a woman has attached earlobes. What is her genotype? ff
 - What allele(s) does her gametes (ova) carry? f
 - These two individuals produce a child. Show the genotype of the child by doing the cross: FF
 Sperm genotype F x Ovum Genotype f
 Child Genotype Ff 100%
 - What is the phenotype of the child? (That is, does this child have attached or free earlobes?)
4. In garden peas, purple flowers are dominant over white flowers. Let *R* represent the allele for purple flowers, *r* the allele for white flowers.
- What is the phenotype (color) of the flowers with the following genotypes:

Diploid genotype	Gamete genotype
RR	<u>R</u>
rr	<u>r</u>
Rr	<u>R</u> & <u>r</u>

Lab Manual Genetics Answers

John F. Leslie, Brett A. Summerell



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Genetics Laboratory Manual Ernest Brown Babcock, Julius Lloyd Collins, 1918 Contemporary Genetics Laboratory Manual Rodney J. Scott, 2001 Instructor's Manual for Perry and Morton's Laboratory Manual for Starr and Taggart's Biology, the Unity and Diversity of Life and Starr's Biology, Concepts and Applications Joy B. Perry, 1992 **Laboratory Manual of Genetics** A. M. Winchester, Peter J. Wejksnora, 1995-12 Give your students the opportunity to apply the scientific method to real not simulated lab investigations in both classical and molecular genetics It is appropriate for a range of genetics and molecular biology laboratory courses because it incorporates material spanning the areas of basic genetics molecular genetics and human genetics Since the first edition *Laboratory Manual of Genetics* has been carefully constructed to be student oriented **Field and Laboratory Manual in Biology** Alfred Charles Kinsey, 1927 Laboratory Manual for Anatomy and Physiology Connie Allen, Valerie Harper, 2011-01-05 The *Laboratory Manual for Anatomy and Physiology* by Allen and Harper presents material in a clear and concise way It is very interactive and contains activities and experiments that enhance readers ability to both visualize anatomical structures and understand physiological topics Lab exercises are designed to require readers to first apply information they learned and then to critically evaluate it All lab exercises promote group learning and the variety offers learning experiences for all types of learners visual kinesthetic and auditory Additionally the design of the lab exercises makes them easily adaptable for distance learning courses **Exploring Physical Anthropology Laboratory Manual & Workbook** Suzanne E. Walker-Pacheco, 2017-02-01 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation Medical Laboratory Technician Certification Study Guide 2025-2026 Lucas Blade Hebert, Master Laboratory Science Ace Your Certification Ready to excel in your MLT or MLS certification exam This comprehensive review guide provides everything you need to succeed from fundamental concepts to advanced clinical applications 700 Practice Questions Test your knowledge across all laboratory disciplines with detailed explanations that reinforce learning 26 Complete Chapters Master Hematology Chemistry Microbiology Immunology Blood Banking and more with systematic easy to follow content Real Clinical Cases Apply your knowledge through authentic laboratory scenarios that mirror actual practice High Yield Review Focus your study time on the most frequently tested concepts with targeted review sections Test Taking Strategies Learn proven techniques to maximize your performance on examination day From basic laboratory principles to complex diagnostic challenges this guide

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The Fusarium Laboratory Manual John F. Leslie, Brett A. Summerell, 2008-02-28 For the first time in over 20 years a comprehensive collection of photographs and descriptions of species in the fungal genus *Fusarium* is available This laboratory manual provides an overview of the biology of *Fusarium* and the techniques involved in the isolation identification and characterization of individual species and the populations in which they occur It is the first time that genetic morphological and molecular approaches have been incorporated into a volume devoted to *Fusarium* identification The authors include descriptions of species both new and old and provide protocols for genetic morphological and molecular identification techniques The *Fusarium Laboratory Manual* also includes some of the evolutionary biology and population genetics thinking that has begun to inform the understanding of agriculturally important fungal pathogens In addition to practical how to protocols it also provides guidance in formulating questions and obtaining answers about this very important group of fungi The need for as many different techniques as possible to be used in the identification and characterization process has never been greater These approaches have applications to fungi other than those in the genus *Fusarium* This volume presents an introduction to the genus *Fusarium* the toxins these fungi produce and the diseases they can cause The *Fusarium Laboratory Manual* is a milestone in the study of the genus *Fusarium* and will help bridge the gap between morphological and phylogenetic taxonomy It will be used by everybody dealing with *Fusarium* in the Third Millennium W F O Marasas Medical Research Council South Africa

Laboratory Guide to the Methods in Biochemical Genetics Nenad Blau, Frédéric M. Vaz, 2024-11-01 Now in its 2nd edition this manual describes laboratory methodology for the diagnosis of inherited metabolic diseases The book describes a spectrum of tests from simple screening methods via classical methods that are operational in most if not all biochemical laboratories to analytical methods that depend on technologies that very few are currently employing in their labs but are certainly the functional techniques in a biochemical laboratory in this post genomics era Each chapter is sufficiently detailed to be self contained thus enabling laboratory specialists to adopt the method in their own laboratory and obviating the need for additional methods or references The second updated edition of the book is unique in that it is the first of its kind to be published in the last 13 years and individual chapters have been developed by experts in the field citing both established and cutting edge omics technology Thus it is an indispensable resource for researchers and clinicians working on the field of inherited metabolic diseases and those interested in laboratory diagnoses

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