

## Extending Mendelian Genetics

**Study Guide A****Answer Key****SECTION 1. CHROMOSOMES AND PHENOTYPE**

1. sex; autosomes
2. does not; can
3. Autosomal Recessive:  $DD$ , no disorder;  $Dd$ , carrier;  $dd$ , disorder  
Autosomal Dominant:  $DD$ , disorder;  $Dd$ , disorder;  $dd$ , no disorder
4. sex chromosomes
5.  $XX$ , female;  $XX$ , female;  $XY$ , male;  $XY$ , male
6. either X or Y; only X
7. male
8. row 1: males; row 2: females
9. offspring
10. females; "turned off"

**SECTION 2. COMPLEX PATTERNS OF INHERITANCE**

1. b, d, f
2. a, e
3. more than
4. b
5. d
6. a
7. c
8. genes; phenotypes
9. expression
10. environment
11. temperature; nutrition / health care
12. incomplete dominance
13. codominance
14. polygenic traits

**SECTION 3. GENE LINKAGE AND MAPPING**

1. together
2. quickly; easy
3. most common; much less
4. chromosome; independently; cross-over
5. Mendel: b and c; Punnett and Bateson: b and c; Morgan: a, d, and f
6. closer; farther apart
7. meiosis
8. c
9. b
10. a and c
11. A–7–D–13–B–5–C

**SECTION 4. HUMAN GENETICS AND PEDIGREES**

1. b and d
2. c
3. autosomal
4. Males
5. genotypes
6. phenotype
7. d
8.  $X^dX^d$   
 $X^dY$   
female carrier  
must have  $X^D X^d$ ,  $X^D Y$ ; could have  $X^D X^D$ ,  $X^D X^d$ ,  $X^D Y$ ,  $X^d Y$   
must have  $X^D X^d$ ,  $X^D Y$ ; could have  $X^D X^d$ ,  $X^d X^d$ ,  $X^D Y$ ,  $X^d Y$   
must have  $X^d X^d$ ,  $X^d Y$   
must have  $X^d X^d$ ,  $X^d Y$ ; could have  $X^d X^d$ ,  $X^d Y$
9. karyotypes; genetic testing (genetic screening)
10. chromosomes
11. picture

# Biology Labratory Manual A Answer Key

**Arturo Cuomo**



## **Biology Labratory Manual A Answer Key:**

## **Biology Labratory Manual A Answer Key** Book Review: Unveiling the Power of Words

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