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*, carrier; *dd*, disorder
   Autosomal Dominant: *DD*, disorder; *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^aX^a
   X^aY
   female carrier
   must have X^DX^d, X^DY; could have X^DX^D, X^DX^d, X^DY, X^dY
   must have X^DX^d, X^dY; could have X^DX^d, X^dX^d, X^DY, X^dY
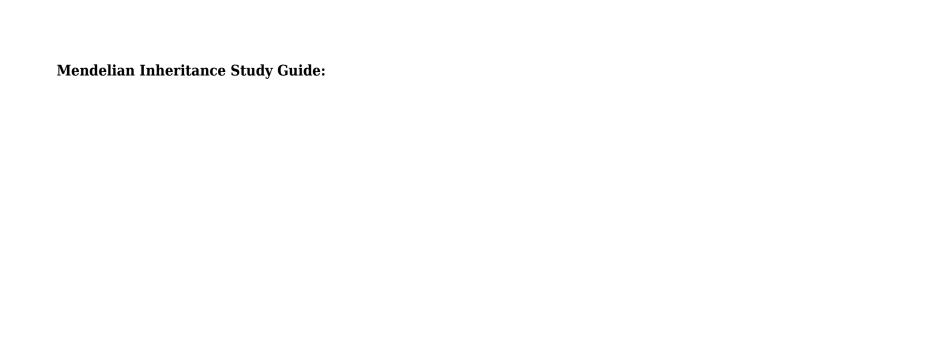   must have X^dX^d, X^DY; could have X^DX^d, X^dY
   must have X^dX^d, X^DY; could have X^DX^d, X^dY
9. karyotypes; genetic testing (genetic screening)
10. chromosomes
11. picture

Mendelian Inheritance Study Guide

Marcel A. Müller

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