

Genetics Problems

1. Suppose a father of blood type A and a mother of blood type B have a child of type O. What are the possible blood types of the mother and father?

Father: I^A Mother: I^B

2. Suppose a father of blood type B and a mother of blood type O have a child of type O. What are the chances that their next child will be blood type O? Type B? Type A? Type AB?

type O: 50% or 1/2

Type B: 50% or 1/2

Type A: 0%

Type AB: 0%

3. Why is blood type inheritance an example of both codominance and complete dominance?

Alleles A and B are codominant – they are expressed equally (at the same time) when present in a cell (genotype I^AI^B), but both alleles A and B are dominant over allele O, when present in the heterozygous genotype (I^Ai or I^Bi)

4. Sickle-cell anemia is a condition in which the red blood cells of an individual can become shaped like the letter "C." This shape prevents the red blood cells from moving easily through blood vessels. It can result in the cells clumping, blocking blood flow and causing pain, infection, and organ damage. The allele that causes sickle-cell anemia is autosomal recessive (s), and the dominant allele can be represented by S.

(a) For the following families, determine the genotypes of the parents and offspring. When it is not possible to decide which genotype an individual is, list both.

(i) Two normal parents have four normal children and one with sickle-cell anemia.
 Parents both Ss normal children: either Ss or SS child with sickle cell anemia: ss

(ii) A normal male and a female with sickle-cell anemia have six children, all normal.
 normal male: most likely SS, but could be Ss (sample size is too small to tell for sure);
 female: ss
 6 normal offspring: Ss

(iii) A normal male and a female with sickle-cell anemia have six children; three are normal, and three have sickle-cell anemia.

Normal male: Ss
 female with sickle cell anemia: ss
 3 normal children: Ss
 3 children with sickle cell anemia: ss

(b) Construct a pedigree chart for the families in (ii) and (iii).



Genetics Problems With Answers

Gail Patt, Anita Bennett



Genetics Problems With Answers:

Solving Problems in Genetics Richard Kowles, 2013-12-01 The principle objective of this book is to help undergraduate students in the analysis of genetic problems Many students have a great deal of difficulty doing genetic analysis and the book will be useful regardless of which genetics text is being used Most texts provide some kinds of problems and answers few if any however show the students how to actually solve the problem Often the student has no idea how the answer was derived This work emphasizes solutions not just answers The strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis Throughout the book an attempt is made to present a balanced account of genetics Topics therefore center about Mendelian cytogenetic molecular quantitative and population genetics with a few more specialized areas Whenever possible the student is provided with the appropriate basic statistics necessary to make some of the analyses The book also builds on itself that is analytical methods learned in early parts of the book are subsequently revisited and used for later analyses A deliberate attempt is made to make complex concepts simple and sometimes to point out that apparently simple concepts are sometimes less so on further investigation Any student taking a genetics course will find this book an invaluable aid to achieving a good understanding of genetic principles and practice

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