

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: $I^A I^i$ Mother: $I^B I^i$

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 $\frac{1}{2}$

Type B: 50% or $\frac{1}{2}$

Type A: 0%

Type AB: 0%

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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 $I^A I^B$), but both alleles A and B are dominant over allele O, when present in the heterozygous genotype ($I^A I^i$ or $I^B I^i$)

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.

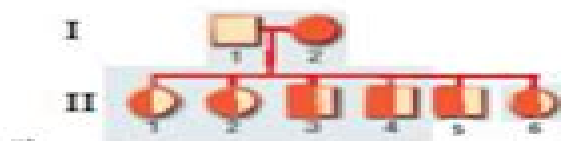
Normal male: Ss

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 Answer Key 1 23

Frans J. de Bruijn



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