

Analysis of a Squirrel Gene Pool

Suppose that a gene pool of a squirrel species is analyzed and the following data are obtained. Assume that the gene pool is in Hardy-Weinberg equilibrium. What is the frequency of the recessive allele? What is the frequency of the dominant allele? What is the frequency of the heterozygous genotype? What is the frequency of the homozygous dominant genotype? What is the frequency of the homozygous recessive genotype?

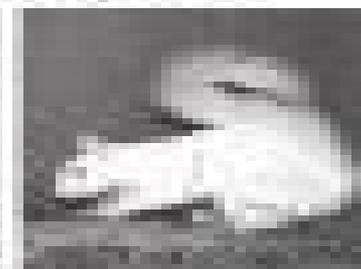


Figure 1: A graph showing the frequency of alleles in a squirrel gene pool over time.

| Year | Allele A | Allele a | Genotype AA | Genotype Aa | Genotype aa |
|------|----------|----------|-------------|-------------|-------------|
| 1970 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 1975 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 1980 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 1985 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 1990 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 1995 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 2000 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 2005 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 2010 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 2015 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |
| 2020 | 0.70 | 0.30 | 0.49 | 0.42 | 0.09 |

| Year | Allele A | Allele a |
|------|----------|----------|
| 1970 | 0.70 | 0.30 |
| 1975 | 0.70 | 0.30 |
| 1980 | 0.70 | 0.30 |
| 1985 | 0.70 | 0.30 |
| 1990 | 0.70 | 0.30 |
| 1995 | 0.70 | 0.30 |
| 2000 | 0.70 | 0.30 |
| 2005 | 0.70 | 0.30 |
| 2010 | 0.70 | 0.30 |
| 2015 | 0.70 | 0.30 |
| 2020 | 0.70 | 0.30 |

1. Using the graph, determine the frequency of alleles in a squirrel gene pool over time. (20 points)

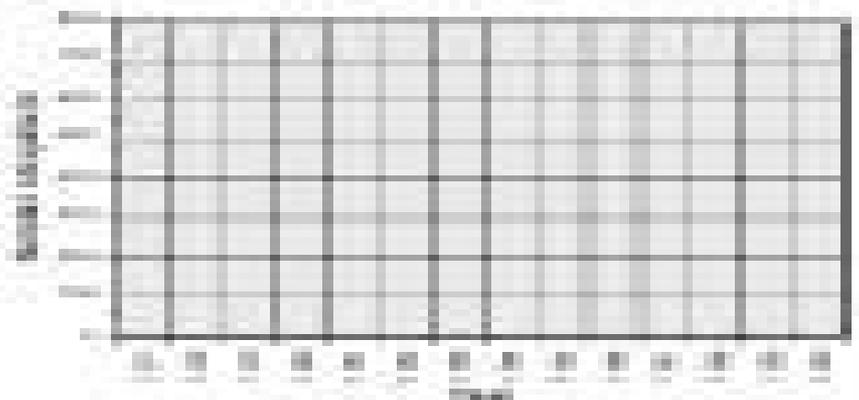
2. Calculate the frequency of the dominant allele. (5 points)

3. Calculate the frequency of the recessive allele. (5 points)

4. Calculate the frequency of the heterozygous genotype. (5 points)

5. Calculate the frequency of the homozygous dominant genotype. (5 points)

6. Calculate the frequency of the homozygous recessive genotype. (5 points)



Analysis Of A Squirrel Gene Pool

JR Anderson



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