

Populations and evolution

Population genetics

A **population** is a group of organisms of the same species occupying a particular space at a particular time that can potentially interbreed. The total number of alleles that are present in a population is known as the **gene pool** whilst the **allelic frequency** expresses as a decimal or percentage the proportion of a certain allele in a gene pool.

The **Hardy-Weinberg Equation** can be used to **estimate the frequency of alleles in a population** and to see whether a change in allele frequency is occurring in a population over time. In order to do this the following points are assumed:

- **no mutations** occur to create new alleles.
- there is **no movement of alleles** into or out of the population by migration.
- the **population is large**.
- there is **no selection**, so every allele has an equal chance of being passed to the next generation.
- **mating is random**.

The formulae for the Hardy-Weinberg principle are shown below:

$$p + q = 1.0 \text{ AND } p^2 + 2pq + q^2 = 1$$

Where:

p = the frequency of the dominant allele (represented by A)

q = the frequency of the recessive allele (represented by a)

p² = frequency of AA (homozygous dominant)

2pq = frequency of Aa (heterozygous)

q² = frequency of aa (homozygous recessive)

We can now use these equations to determine the probability of any allele in a population. For example, suppose that a particular characteristic is the result of the recessive allele **a**, and we know that one person in 25 000 displays the character.

- The character, being recessive, will only be observed in individuals who have two recessive alleles **aa**.
- The probability of **aa** must be $\frac{1}{25\,000}$ or 0.00004.
- The probability of **aa** is q^2 .
- If $q^2 = 0.00004$, then $q = \sqrt{0.00004}$ or 0.0063 approximately.
- We know that the probability of both alleles **A** and **a** is $p + q$ and is equal to 1.0.
- If $p + q = 1.0$, and $q = 0.0063$ then:
- $p = 1.0 - 0.0063 = 0.9937$, that is, the probability of allele **A** = 0.9937.
- We can now calculate the probability of heterozygous individuals (and therefore the probability of genotypes and phenotypes) in the population.
- From the Hardy-Weinberg equation we know that the probability of the heterozygotes is $2pq$.

Variation in phenotype

- In this case, $2pq = (2 \times 0.9937 \times 0.0063) = 0.0125$.
- Heterozygous individuals act as a reservoir of recessive alleles in the population, although they themselves do not express the allele in their phenotype.

Biology Section 1 Populations Answers

Gary N. Ervin



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Chapter Resource 13 Theory/Evolution Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Population Biology Alan Hastings, 2013-03-14 Population biology has been investigated quantitatively for many decades resulting in a rich body of scientific literature Ecologists often avoid this literature put off by its apparently formidable mathematics This textbook provides an introduction to the biology and ecology of populations by emphasizing the roles of simple mathematical models in explaining the growth and behavior of populations The author only assumes acquaintance with elementary calculus and provides tutorial explanations where needed to develop mathematical concepts Examples problems extensive marginal notes and numerous graphs enhance the book's value to students in classes ranging from population biology and population ecology to mathematical biology and mathematical ecology The book will also be useful as a supplement to introductory courses in ecology

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The Foundations of Population Genetics Daniel M. Weinreich, 2023-08-29 An accessible but rigorous treatment of the theoretical foundations of population genetics Population genetics the branch of evolutionary biology concerned with understanding how and why populations genetic compositions change over time rests on a well developed theoretical foundation that draws on genetics mathematics and computer science This textbook provides an approachable but rigorous treatment for advanced undergraduate and graduate students interested in building a quantitative understanding of the genetics of evolution Existing texts either assume very mathematically advanced readers or avoid much of the underlying theory instead focusing on current methods of data analysis In contrast *The Foundations of Population Genetics* develops the theory from first principles Requiring only confidence in algebra this self contained student friendly book illustrates the conceptual framework terminology and methods of mathematical modeling It progressively introduces concepts from genetics as needed while emphasizing biological implications throughout As a result readers come away with a deep understanding of the structure of population genetics without needing to master its mathematics Connects theory with the most recent genetic data better than existing texts Features engaging real world examples and extensive original figures Provides dozens of carefully scaffolded questions that deepen the reader s understanding of key concepts Ideal as a succinct reference for established scientists in biology medicine and computer science Instructor resources available [Chapter Resource 14 Class of Organisms Biology](#) Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **CliffsNotes AP Biology 2021 Exam** Phillip E. Pack, 2020-08-04 CliffsNotes AP Biology 2021 Exam gives you exactly what you need to score a 5 on the exam concise chapter reviews on every AP Biology subject in depth laboratory investigations and full length model practice exams to prepare you for the May 2021 exam Revised to even better reflect the new AP Biology exam this test prep guide includes updated content tailored to the May 2021 exam Features of the guide focus on what AP Biology test takers need to score high on the exam Reviews of all subject areas In depth coverage of the all important laboratory investigations Two full length model practice AP Biology exams Every review chapter includes review questions and answers to pinpoint

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