

17.1 Genes and Variation

How does evolution work in genetic terms?

- Natural selection does not affect a **single** gene, rather it works overall on a species
- Also instead of natural selection working on a single **organism**, it affects the **gene pool**, which is all the genes in a population
- **Allele Frequency** is the number of times an allele occurs in the gene pool
- Genetically speaking, evolution is just the **change** in allele frequency over time in a population

Sources of Genetic Variation

- There are three main sources of genetic variation
 - **Mutations**- any change in the genetic material of the cell. Most are neutral and scientists estimate every person is born with about 300 mutations
 - **Genetic Recombination**- the alleles that each parent donates are different from person to person making genes slightly different
 - **Lateral Gene Transfer**- passing of traits from one individual to the next, common in bacteria

What determines the number of phenotypes?

- The number of phenotypes is determined by how many **genes** control the trait
- A single gene trait normally has **two** phenotypes, the dominant and the recessive
- A polygenic trait will normally have **several** phenotypes
- The graph of frequency will often look like a **bell curve**

17.2 and 17.3 Genetic Change and Speciation

Natural Selection on Single Genes

- In single gene traits, mutations are easy to track
- As an example let's say the natural color in a lizard species is brown, and a mutation makes the lizard red and black
 - If the mutation is **advantageous**, it will become more common as more red and black lizards live and pass on their trait.
 - On the other hand, if the red and black coloring is **bad**, the lizards with the trait won't survive and the trait will eventually disappear
- In polygenic traits, natural selection affects the relative fitness and produces one of three possible types of selection
 - **Directional Selection**- Individuals at one end of the curve become more fit and the curve shifts in that direction
 - **Stabilizing Selection**- Individuals in the middle of the curve have a higher fitness, this causes the curve to become more slender and taller
 - **Disruptive Selection**- Individuals at the tips are more fit than those in the middle. Could eventually lead to speciation

Genetic Drift

- Over time, an individual with one allele may have more offspring than another and therefore affect allele frequency, this random change is called **genetic drift**
- If the population size is drastically reduced, then slowly builds back up, the gene pool is going to be different than the original population. We call this the **bottleneck effect**.

Genes And Variation 17 Summary

LL Leslie



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Pharmacogenetics Research and Clinical Applications: An International Landscape of the Accomplishments, Challenges, and Opportunities Nathalie K. Zgheib, George P. Patrinos, 2020-10-12 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact *Cancer systems biology* Jesús Espinal-Enríquez, Claudia Rangel-Escareño, Frank Emmert-Streib, 2022-12-19

Introduction to Genetic Analysis (Loose-Leaf) Anthony J.F. Griffiths, Susan R. Wessler, Richard C. Lewontin, Sean B. Carroll, 2008-12-05 The author team welcomes a new coauthor Sean B Carroll a recognized leader in the field of evolutionary development to this new edition of Introduction to Genetic Analysis IGA The authors ambitious new plans for this edition focus on showing how genetics is practiced today In particular the new edition renews its emphasis on how genetic analysis can be a powerful tool for answering biological questions of all types Special Preview available *A Bibliographical Monograph on Plant Genetics (genetic Analysis) 1900-1925* Hajime Matsuura, 1929 **Developmental Delay and Intellectual Disability** Santasree Banerjee, Muhammad Ayub, Chen Li, Anjana Munshi, 2022-10-19 Genetic Analysis Philip Mark Meneely, 2014 How do we know what role a particular gene has How do some genes control the expression of others How do genes interact to form gene networks With its unique integration of genetics and molecular biology Genetic Analysis explores these fascinating questions detailing how our understanding of key genetic phenomena can be used to understand biological systems Opening with a brief overview of key genetic principles model organisms and epigenetics the book goes on to explore the use of gene mutations and the analysis of gene expression and activity A discussion of the genetic structure of natural populations follows before the interaction of genes during suppression and epistasis how we study gene networks and personalized genomics are considered Drawing on the latest experimental tools including microarrays RNAi screens and bioinformatics approaches Genetic Analysis provides a state of the art review of the field in a truly student friendly manner It uses extended case studies and text boxes to augment the narrative taking the reader to the forefront of contemporary research with exceptional clarity We are in an age where despite knowing so much about biological systems we are just beginning to realize how much more there is still to understand Genetic Analysis is the ideal guide to harnessing the awesome power of molecular genetics to further our understanding of biology Genetics and Analysis of Quantitative Traits Bruce Walsh, Peter M. Visscher, Michael Lynch, 2025-08-21 Almost every trait in nature shows variation both within populations and between populations and species The field of quantitative genetics is the very broad umbrella that attempts to separate environmental from genetic sources of

variation As a result it has powerful applications in animal and plant breeding evolution ecology medicine anthropology behaviour population genetics conservation biology genomics and statistics This second edition of Genetics and Analysis of Quantitative Traits is a fully rewritten and greatly expanded revision of the first edition published in 1998 which provided the first modern unified treatment of quantitative genetics In the past two decades there have been massive advancements in the field coupled with explosive growth in new quantitative methods those developments are covered in this new edition The book weaves important biological applications with a full development of the theory and appropriate statistical tools There are extensive discussions of important linear algebra tools linear and mixed models likelihood and Bayesian estimation as well as false discovery rates multiple comparisons and meta analysis More than 100 worked examples ranging from microbes to humans illustrate the key concepts using real world applications This extensive reference will be suitable for graduate level students and professional researchers both empiricists and theoreticians in the fields of evolutionary biology genetics and genomics It will also be of particular relevance and use to applied evolutionary biologists working in breed improvement for agriculture human geneticists and statisticians

Insights in Inflammation: 2022 Pietro Ghezzi, Simone Mader, Rudolf Lucas, Sandra Sacre, Pierre Miossec, 2023-06-27

Human Biology Daniel D. Chiras, 2013

Introduction to Genetics and its Importance in Pharmacy and Medicine Edenilson Brandl, Genetics is a fascinating and ever evolving field that plays a key role in understanding the complexity of human beings and in the search for more accurate and effective treatments for a variety of medical conditions In this book we will explore the intersection of genetics and medicine covering a wide range of topics that highlight the importance and impact of genetics in many areas of health From advances in pharmacogenetics which allow us to understand how genes influence individuals response to drugs to the promise of gene therapy which seeks to correct or compensate for genetic defects associated with disease we will delve into the latest discoveries and most recent developments in each field In addition we ll cover the exciting field of regenerative medicine which uses the principles of genetics to encourage regeneration of damaged tissues and organs We will explore how this approach is being applied in eye liver kidney and musculoskeletal injuries among others Amid scientific advances we will also delve into rare genetic diseases which pose unique challenges for patients families and healthcare professionals We will discuss the advances in genetic research that are allowing for a better understanding of these conditions and the hopes that arise from this The relationship between genetics and neuroscience two areas that complement each other will be addressed highlighting discoveries that are unlocking the mysteries of the brain and neurological diseases as well as the ethical and clinical issues associated with these discoveries Another important aspect to be explored is precision medicine which uses individual genetic information to customize diagnoses and treatments We will see how genetics is revolutionizing the field of endocrinology impacting cardiovascular neurological hematological and many other diseases Throughout this book we will also examine the history of genetics revisiting the milestones and discoveries that brought us here Furthermore we cannot

ignore the ethical implications involved in this journey of knowledge and how they shape the present and future of genetics and medicine Ultimately this book aims to provide a comprehensive and accessible look at the interplay between genetics and medicine highlighting the advances challenges and promise that this exciting field holds I invite you to embark on this journey with us exploring the connections between genetics and health and discovering how genetic insights are shaping the future of medicine and transforming lives

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