

Student Exploration: Mouse Genetics (One Trait AND Two Traits)

Vocabulary: allele, DNA, dominant allele, gene, genotype, heredity, heterozygous, homozygous, hybrid, inheritance, phenotype, Punnett square, recessive allele, trait

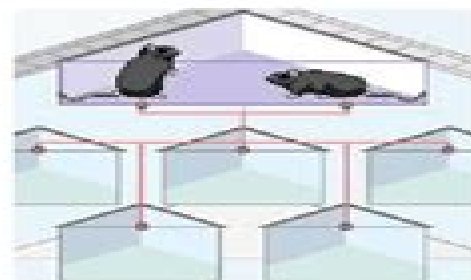
Gizmo Warm-up

Heredity is the passage of genetic information from parents to offspring. The rules of **inheritance** were discovered in the 19th century by Gregor Mendel. With the *Mouse Genetics (One Trait)* Gizmo™, you will study how one **trait**, or feature, is inherited.

1. Drag two black mice into the **Parent 1** and **Parent 2** boxes. Click **Breed** several times. What do the offspring look like?

[All of the offspring will have black fur.]

The appearance of each mouse is also called its **phenotype**.



2. Click **Clear**, and drag two white mice into the parent boxes. Click **Breed** several times. What is the phenotype of the offspring now? [All offspring are white furred.]

3. Do you think mouse offspring will always look like their parents? [Yes. But it will different ways the offspring will vary from the parent.]

Explain: [For example if your mom has sharp ears and your dad has flat ears, you could get a mixture of both types of ears.]

Activity A:
Patterns of
inheritance

Get the Gizmo ready:

- Click **Clear**.
- Drag a black mouse and a white mouse into the parent boxes, but don't click **Breed** yet.



Question: What patterns are shown by offspring traits?

Answer Key For Mouse Genetics

Katrin Zwirgmaier

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answer Key For Mouse Genetics:

Principles of Development Lewis Wolpert, Cheryll Tickle, Alfonso Martinez Arias, 2015 Developmental biology is at the core of all biology This text emphasises the principles and key developments in order to provide an approach and style that will appeal to students at all levels *Epigenetics* Benedikt Hallgrímsson, Brian K. Hall, 2011-04-11 If you want to understand evolution you need to understand the murky world of epigenetics A hearty congratulations should be paid to Hallgrímsson and Hall who provide reliable and steady illumination Bernard Wood Center for the Advanced Study of Hominid Paleobiology George Washington University **Energy and Water Development Appropriations for Fiscal Year 2001**

United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development, 2001

Rosenberg's Molecular and Genetic Basis of Neurological and Psychiatric Disease, Seventh Edition Roger N. Rosenberg, Juan M. Pascual, 2024-10-04 Rosenberg's Molecular and Genetic Basis of Neurologic and Psychiatric Disease Seventh Edition provides a comprehensive introduction and reference to the foundations and key practical aspects relevant to neurologic and psychiatric disease This volume has been thoroughly revised and includes newly commissioned chapters on ethics genetic counselling and genet therapy for the central nervous system disorders A favorite of over four generations of students clinicians and scholars this new edition retains and expands the informative concise and critical tone of the previous edition This is an essential reference for general medical practitioners neurologists psychiatrists geneticists and related professionals and for the neuroscience and neurology research community at large Both volumes combined provide a comprehensive coverage on the neurogenetic foundation of neurological and psychiatric disease This volume provides a detailed introduction on both the clinical and basic research implications of molecular and genetics surrounding the brain Includes new chapters on genomics of human neurological disorders CRISPR and genome engineering Bioinformatics and Functional Genomics Jonathan Pevsner, 2005-03-04 Wiley is proud to announce the publication of the first ever broad based textbook introduction to Bioinformatics and Functional Genomics by a trained biologist experienced researcher and award winning instructor In this new text author Jonathan Pevsner winner of the 2001 Johns Hopkins University Teacher of the Year award explains problem solving using bioinformatic approaches using real examples such as breast cancer HIV 1 and retinal binding protein throughout His book includes 375 figures and over 170 tables Each chapter includes Problems discussion of Pitfalls Boxes explaining key techniques and math stats principles Summary Recommended Reading list and URLs for freely available software The text is suitable for professionals and students at every level including those with little to no background in computer science **Oxford Textbook of Children's Sport and Exercise Medicine** Neil Armstrong, Willem van Mechelen, 2017 Now consisting of fifty innovative chapters authored by internationally recognised scientists and clinicians the extensively revised third edition of the Oxford Textbook of Children's Sport and Exercise Medicine is the fundamental reference work on paediatric exercise medicine and sport science Using a scientific evidence

based approach and new insights into understanding the exercising child and adolescent this title covers a complex and rapidly evolving field Designed to inform challenge and support all involved in the study and treatment of the exercising child and adolescent the Oxford Textbook of Children s Sport and Exercise Medicine presents complex scientific and medical material in an accessible and understandable manner With extensive sections on Exercise Science Exercise Medicine Sport Science and Sport Medicine chapters comprehensively cover training physical activity in relation to health issues the physiology of the young athlete and injury using the research and practical experience of a renowned author team Fully illustrated and extensively revised new topics and fully updated material complement the state of the art approach of previous editions With an increased focus on molecular exercise physiology close to 75% of the content found in this edition is new material reflecting the many advances and developments across this discipline

Neural Mechanisms of Anesthesia Joseph E. Antognini, 2002-08-22 Leading investigators critically evaluate the latest information on how anesthetics work at the molecular cellular organ and whole animal level These distinguished experts review anesthetic effects on memory consciousness and movement and spell out in detail both the anatomic structures and physiological processes that are their likely targets as well as the cellular and molecular mechanisms by which they operate Comprehensive and authoritative Neural Mechanisms of Anesthesia draws together and critically reviews all the recent research on anesthetic mechanisms highlighting the precise routes along which these substances operate and how this deeper understanding will lead to the design of effective drugs free of undesirable side effects

Mouse Genetics Lee M. Silver, 1995 **Endeavors**, 2002

Nature Sir Norman Lockyer, 2007 *Transactions Biochemical Society* (Great Britain), 2009 *Biochemistry and Cell Biology*, 2009 *Mammalian Genetics and Cancer* Elizabeth Shull Russell, 1981 *History of Science in America, News and Views*, 1995 *Harvard Magazine*, 1998 **Sustaining Life** Eric Chivian, Aaron Bernstein, 2008-05-15 Edited and written by Harvard Medical School physicians Eric Chivian and Aaron Bernstein Sustaining Life presents a comprehensive and sobering view of how human medicines biomedical research the emergence and spread of infectious diseases and the production of food both on land and in the oceans depend on on the earth s disappearing biodiversity With a foreword by E O Wilson and a prologue by Kofi Annan and more than 200 poignant color illustrations Sustaining Life contributes essential perspective to the debate over how humans affect biodiversity and a compelling demonstration of the human health costs

The Journal of Experimental Biology, 2007-05 **Rosenberg's Molecular and Genetic Basis of Neurological and Psychiatric Disease** Roger N. Rosenberg, Juan M. Pascual, 2020-06-24 Rosenberg s Molecular and Genetic Basis of Neurologic and Psychiatric Disease Sixth Edition Volume One provides a comprehensive introduction and reference to the foundations and key practical aspects relevant to neurologic and psychiatric disease A favorite of over three generations of students clinicians and scholars this new edition retains and expands the informative concise and critical tone of the first edition This is an essential reference for general medical practitioners neurologists psychiatrists geneticists and related professionals and for the neuroscience and

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