

Name : Rane Dutcher

Monster Genetics Lab

Trait	Allele 1	Allele 2	Genotype	Phenotype
Eye	Two small eyes (E)	One large eye (e)	Allele 1 Allele 1	EE
Eye Color (incomplete)	Red (R)	White (R')	Allele 1 Allele 2	RR'
Skin Color (codominant)	Green (G)	Blue (B)	Allele 2 Allele 1	GB
Tail Shape	Curly (C)	Straight (c)	Allele 1 Allele 2	Cc
Tail Color	Purple (P)	Orange (p)	Allele 1 Allele 1	PP
Tail (regulatory gene)	Have tail (T)	No tail (t)	Allele 1 Allele 2	Tt
Teeth	Sharp (S)	Round (s)	Allele 2 Allele 1	Ss
Feet (incomplete)	Four toes (F)	Two toes (F')	Allele 2 Allele 2	F'F'
Horn Color	Purple (W)	White (w)	Allele 1 Allele 2	Ww
Ear shape	Pointy (Y)	Round (y)	Allele 2 Allele 1	Yy
Ears (regulatory)	No ears (N)	Two ears (n)	Allele 1 Allele 2	Nn
Claws	Long (L)	Short (l)	Allele 1 Allele 1	LL

You have learned about many different patterns of inheritance. Some are simple dominant or recessive, as in Mendelian traits. Some are more complex, such as incomplete dominant or codominant traits. In this lab you will investigate how a combination of these genes work together to create an organism.

Part 1 Procedure:

1. Flip a coin twice to determine the **genotype** for each trait and record it in the data table.
Heads = allele 1, Tails = allele 2 (*Example: if you flipped heads twice, your monster will have two copies of allele 1 for his genotype.*)
2. Determine the **phenotype** resulting from the allele pair for each trait.
3. Repeat steps 1-2 for each trait and complete the female monster's Table 1.

Table 1: Genotypes & Phenotypes for Female Monster

Answers For Genetics Genotypes And Phenotypes Lab

Robert R Harr



Answers For Genetics Genotypes And Phenotypes Lab:

Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

Pan-Genome Level Genotype and Phenotype Prediction: Advances in Precision Agriculture Penghao Wang, Washington Gapare, Jian Ma, 2021-11-26 **Genetics And Ecotoxicology** Valery E. Forbes, 2022-01-26 This first volume in the series provides a detailed treatment in ecotoxicology and stresses why genetics is important in understanding if and how chemical contaminants affect populations Written by an array of international contributors from various fields covering mammals invertebrates fish plants as well as molecular ecotoxicology this book considers both ecological evolutionary consequences and practical implications of the interplay between chemical toxicants and the genetic population In broadening the understanding of ecological response this resource ranges from molecular to classical genetics from plant to animal from asexual to sexual touching on some fundamental issues of evolutionary biology In addition gaps in our present understanding of genetic and ecotoxicological processes and future research directions have been identified **Medical Laboratory Science Review** Robert R Harr, 2012-10-11 Use this comprehensive resource to gain the theoretical and practical knowledge you need to be prepared for classroom tests and certification and licensure examinations

Laboratory Practical-II Mr. Rohit Manglik, 2024-07-29 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Quantitative Genetics in the Wild** Anne Charmantier, Dany Garant, Loeske E. B. Kruuk, 2014 Although the field of quantitative genetics the study of the genetic basis of variation in quantitative characteristics such as body size or reproductive success is almost 100 years old its application to the study of evolutionary processes in wild populations has expanded greatly over the last few decades During this time the use of wild quantitative genetics has provided insights into a range of important questions in evolutionary ecology ranging from studies conducting research in well established fields such as life history theory behavioural ecology and sexual selection to others addressing relatively new issues such as populations responses to climate change or the process of senescence in natural environments Across these fields there is increasing appreciation of the need to quantify the genetic rather than just the phenotypic basis and diversity of key traits the genetic basis of the associations between traits and the interaction between these genetic

effects and the environment This research activity has been fuelled by methodological advances in both molecular genetics and statistics as well as by exciting results emerging from laboratory studies of evolutionary quantitative genetics and the increasing availability of suitable long term datasets collected in natural populations especially in animals Quantitative Genetics in the Wild is the first book to synthesize the current level of knowledge in this exciting and rapidly expanding area This comprehensive volume also offers exciting perspectives for future studies in emerging areas including the application of quantitative genetics to plants or arthropods unraveling the molecular basis of variation in quantitative traits or estimating non additive genetic variance Since this book deals with many fundamental questions in evolutionary ecology it should be of interest to graduate post graduate students and academics from a wide array of fields such as animal behaviour ecology evolution and genetics

The Laboratory Mouse Hans Hedrich, 2012-07-16 Mice have long been recognized as a valuable tool for investigating the genetic and physiological bases of human diseases such as diabetes infectious disease cancer heart disease and a wide array of neurological disorders With the advent of transgenic and other genetic engineering technologies the versatility and usefulness of the mouse as a model in biomedical research has soared As a result mouse colonies everywhere are expanding and scientists who previously focused on other models are turning their attention to the mouse Revised to reflect advances since the first edition The Laboratory Mouse Second Edition continues to be the most accessible reference on the biology and care of the laboratory mouse This guide presents basic information and common procedures in detail to provide a quick reference source for investigators technicians and caretakers in the humane care and use of the mouse in the laboratory setting Expanded updated and now in color this new edition includes coverage of the biological features husbandry management veterinary care experimental methodology and resources applying specifically to the mouse Provided by publisher

Wild Immunology—The Answers Are Out There Gregory M. Woods, Andrew S. Flies, 2019-03-20 Go into partnership with nature she does more than half the work and asks none of the fee Martin H Fisher Nature has undertaken an immense amount of work throughout evolution The evolutionary process has provided a power of information that can address key questions such as Which immune molecules and pathways are conserved across species Which molecules and pathways are exploited by pathogens to cause disease What methods can be broadly used or readily adapted for wild immunology How does co infection and exposure to a dynamic environment affect immunity Section 1 addresses these questions through an evolutionary approach Laboratory mice have been instrumental in dissecting the nuances of the immune system The first paper investigates the immunology of wild mice and reviews how evolution and ecology sculpt differences in the immune responses of wild mice and laboratory mice A better understanding of wild immunology is required and sets the scene for the subsequent papers Although nature doesn't ask for a fee it is appropriate that nature is repaid in one form or another The translational theme of the second section incorporates papers that translate wild immunology back to nature But any non human non laboratory mouse research environment is hindered by a lack of research tools hence the

underlying theme throughout the second section Physiological resource allocation is carefully balanced according to the most important needs of the body Tissue homeostasis can involve trade offs between energy requirements of the host and compensatory mechanisms to respond to infection The third section comprises a collection of papers that employ novel strategies to understand how the immune system is compensated under challenging physiological situations Technology has provided substantial advances in understanding the immune system at cellular and molecular levels The specificity of these tools e g monoclonal antibodies often limits the study to a specific species or strain A consequence of similar genetic sequences or cross reactivity is that the technology can be adapted to wild species Section 4 provides two examples of probing wild immunology by adapting technology developed for laboratory species **Laboratory Animal Medicine** Lynn C. Anderson, Franklin M. Loew, Fred W. Quimby, 2002-06-20 A volume in the American College of Laboratory Animal Medicine series this second edition has over 40% new material including the addition of six new topics and many others that are completely rewritten The book comprehensively covers the biological and disease aspects of laboratory animal medicine while examining other aspects such as the biohazards associated with the use of animal experimentation and factors complicating the bioethics of animal research Bayesian Solutions to Problems of Uncertainty in Genetic Data Heather Marie Stringham, 2000

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