

Fruit Fly Exercise 1- Level 1

Description of StarGenetics

In this exercise you will use StarGenetics, a software tool that simulates mating experiments, to analyze the nature and mode of inheritance of specific genetic traits.

Getting started with StarGenetics

- To get to StarGenetics, please navigate to: <http://web.mit.edu/star/genetics/>.
- Click on the **Start** button to launch the application.
- Click **Trust** when a prompt appears asking if you trust the certificate.
- Click on **File → New** in the drop-down menu in the upper left hand corner.
- Click on the **Fruit Fly Exercise 1-Level 1** file.

You have begun a research project in a genetics laboratory that studies the fruit fly *Drosophila melanogaster*. Your research advisor decides to give you an interesting mutant fly called *grounded* that has just been discovered in one of the fly vials in the lab. In addition, you are also given two true-breeding wild-type flies (male and female). All 3 flies can be found within the **Strains box**.

1 First, describe the sex and phenotype of the mutant fly. Describe the phenotype as it compares to wild type.

- The sex and phenotype of each fly should be visually obvious. You can also obtain this information by clicking on the fly and looking at the **Properties** window.

Answer

2 You want to determine the genotype of *grounded*. You are unsure whether its phenotype is caused by a dominant or recessive allele. You are also not sure if *grounded* is true-breeding or not. To determine its genotype, cross *grounded* with one of the wild-type flies.

- Set up a cross between *grounded* and a wild-type fly by dragging each to the **Mating Site** and by clicking on the **Mate** button.
- Each resulting offspring can be viewed within the **Individual** tab or a summary of the results is available on the **Summary** tab.

Answer

Number of F1 flies that look like the wild-type parent: _____

Number of F1 flies that look like the *grounded* mutant parent: _____

Total number of progeny generated: _____

% of progeny that is wild type: _____

% of progeny that is mutant: _____

Circle the ratio that best fits the progeny that you observe.

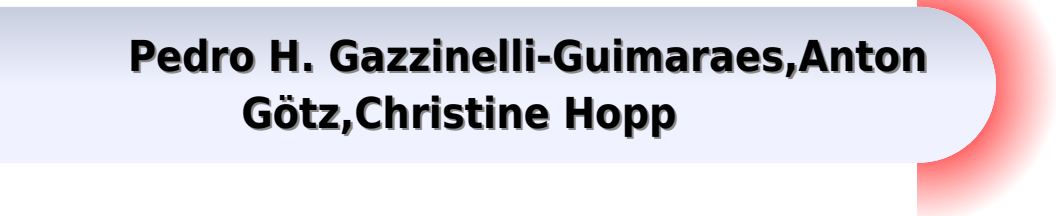
3 WT : 1 mutant

1 WT : 1 mutant

1 WT : 3 mutant

Star Genetics Answers To Exercise 1

**Pedro H. Gazzinelli-Guimaraes, Anton
Götz, Christine Hopp**



Star Genetics Answers To Exercise 1:

Methodologies For The Conception, Design, And Application Of Intelligent Systems - Proceedings Of The 4th International Conference On Soft Computing (In 2 Volumes) Gen Matsumoto, Takeshi Yamakawa, 1996-08-31 IIZUKA 96 the 4th International Conference on Soft Computing emphasized the integration of the components of soft computing to promote the research work on post digital computers and to realize the intelligent systems At the conference new developments and results in soft computing were introduced and discussed by researchers from academic governmental and industrial institutions This volume presents the opening lectures by Prof Lotfi A Zadeh and Prof Walter J Freeman the plenary lectures by seven eminent researchers and about 200 carefully selected papers drawn from more than 20 countries It documents current research and in depth studies on the conception design and application of intelligent systems Developments and Applications in SmartRail, Traffic, and Transportation Engineering Limin Jia, Said Easa, Yong Qin, 2024-08-13 This book is a collection of original peer reviewed contributions from the 2023 International Conference on SmartRail Traffic and Transportation Engineering jointly organized by Beijing Jiaotong University China Electrotechnical Society Chinese Institute of Electronics and Central South University It was held on July 28 30 2023 in Changsha China Topics covered includes SmartRail systems autonomous vehicles energy efficiency sustainable transportation big data in transportation and machine learning Speakers discussed innovative technologies and strategies to improve the efficiency reliability and safety of rail networks while exploring the opportunities and challenges of integrating autonomous vehicles into existing transportation networks It provides valuable insights into the latest developments and trends in transportation engineering and technology with a focus on electrification and sustainable transportation It serves as a valuable resource for professionals researchers and students working in the field McGraw-Hill Education Short Course for the GED Test, Third Edition McGraw Hill, 2018-04-27 Pressed for time This GED guide delivers practical concise test prep to help you pass the GED With more than 125 years of experience in education McGraw Hill is the name you trust to deliver results This MH guide to the GED is the ideal prep tool if your study time is limited Inside this book you will find A quick and concise review of the concepts essential to each of the test s 4 sections Reasoning Through Language Arts Mathematical Reasoning Science and Social Studies Exercises and drills that will reinforce your new skills Four full length posttests designed to match the exam in format and degree of difficulty TOP 25 lists that tell you the most important concepts you need to know for each test s section Study plans for each GED section to help you make the most of your time Unique test taking strategies that explain how to avoid the test maker s traps Tools for approaching specific questions types in the most efficient way The bonus Flashcard App includes 100 cards that will help you review key topics spanning all 4 GED sections The learning objectives in Short Course for the GED Test are based on the Common Core State Standards This means that you can use this book as a base for study on all high school equivalency exams **Report 1-** Royal commission on historical manuscripts, 1872 Stars, Life

and Intelligence Terry Kelly, 2009-12-31 This book is divided into two parts The first part deals with the current understanding of evolution The second part brings together the scientific picture with various responses to the God question Science is a powerful discourse it has unravelled for us the workings of nature and technology has enabled us to apply the findings in many ways to further knowledge to perform complex tasks to further communication and to make life easier and more exciting But there are boundaries and limits to science First the final models of how nature is working are never the final word they are always awaiting falsification never blessed with certain verification Second the deeper one goes towards hoped for truth the more one is confronted with counter intuitive models such as quantum theory spooky action at a distance the dark energy of the vacuum the Big Bang etc Third science cannot advance beyond the questions accessible by scientific experiment questions about purpose and God right and wrong good and evil are not accessible to science Scientific conclusions however can then be subjected to reasonable analysis philosophical reflection aided perhaps by religious beliefs Today a dilemma is often offered for consideration either evolution by natural selection or God and purpose Is this dilemma a false one Can purposeful creation and natural selection both be true Such are the features of evolution one can argue strongly the case for a purpose One can at least say belief in God sits well with evolutionary theory To come to this conclusion we need to extend and improve our image of the God of Abraham Moses and Jesus God is intelligent subtle powerful respectful of the freedom with which the divine will has endowed creation itself and hominids

Rising Stars in Parasite Immunology 2021 Pedro H. Gazzinelli-Guimaraes, Anton Götz, Christine Hopp, 2022-12-05 **Objective Life Science (Plant Science)** Kumar Prasann & Dwivedi Padmanabh, Objective Life Science Plant Science is an exclusive fundamental search based collection of multiple choice questions prepared for students mainly to help them revise consolidate and improve their knowledge and skills Your Cosmic Context Todd Duncan, Craig Tyler, Craig E. Tyler, 2009

Provides a cumulative guide to the general lessons of modern scientific cosmology as well as the historical background that connects the nature of the universe with the reader's place in it Provided by publisher **Nutritional and Environmental Modulation of the Endocrine System: Effects on Metabolism and Growth** Oliana Carnevali, Encarnación Capilla, 2019-11-05 The present eBook is the result of the Frontiers Research Topic entitled Nutritional and environmental modulation of the endocrine system effects on metabolism and growth It contains 12 chapters comprising 7 original research articles 3 reviews and 2 minireviews The objective of the Research Topic was to provide a multidisciplinary approach of cutting edge research on metabolism and growth aiming to address key questions about the interplay between nutritional environmental or other external factors i.e. temperature or pollutants and signals modulating feed intake with the endocrine system regulating these processes Evidences about the molecular principle behind the complex interactions of all these factors on the control of the endocrine and nervous systems regulating the metabolic process are presented The knowledge provided by this eBook focusing in cells model organisms and farmed species have highlighted the importance of dietary and

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All Hands, 1952 Cumulated Index Medicus, 1982 Billboard, 1961-12-04 In its 114th year Billboard remains the world's premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends

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Plowman,Denise L. Smith,2013-02-25 Updated for its Fourth Edition with increased art and photos this undergraduate exercise physiology textbook integrates basic exercise physiology with research studies to stimulate learning allowing readers to apply principles in the widest variety of exercise and sport science careers The book has comprehensive coverage including integrated material on special populations and a flexible organization of independent units so instructors can teach according to their preferred approach Each unit is designed with a consistent and comprehensive sequence of presentation basic anatomy and physiology the measurement and meaning of variables important to understanding exercise physiology exercise responses training principles and special applications problems and considerations Plowman Smith provides a consistently organized comprehensive approach to Exercise Physiology with excellent supporting ancillary materials Its ability to relate up to date research to key concepts and integrate special populations makes this book ideal for classroom use

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New York Star ,1925

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