



Virtual Lab Manual

Mendelian Inheritance

Objective: UNDER the hood of the cell cycle

Program 1: Mendelian Inheritance

Program 2: Mendelian Inheritance

Background

What are Mendelian inheritance? Mendelian inheritance is the study of how traits are passed on from parents to offspring. It is based on the work of Gregor Mendel, who discovered the basic principles of inheritance through his experiments with pea plants.

In this lab, you will learn about the basic principles of Mendelian inheritance. You will learn how to identify the dominant and recessive alleles for a trait, and how to predict the probability of an offspring inheriting a particular trait.

Key concepts to understand: dominant and recessive alleles, genotype, phenotype.

1. What is the difference between a dominant and a recessive allele? How do they affect the phenotype of an organism?

Experiment 1: Mendelian Inheritance with Pea Plants

What happens when you cross two pea plants that are heterozygous for the trait of seed shape (Rr x Rr)? What is the probability of an offspring inheriting a particular trait?

Experiment 2: Mendelian Inheritance with Humans

What is the probability of an offspring inheriting a particular trait from two heterozygous parents? How do you calculate the probability of an offspring inheriting a particular trait from two heterozygous parents?



Brooker Lab Manual

Karin Nielsen-Saines



Brooker Lab Manual:

Vodopich Biology Laboratory Manual specific t/a Brooker Biology Darrell Vodopich, Randy Moore, 2007-06-12 This laboratory manual is designed to accompany the new Brooker et al Biology text The experiments and procedures are simple safe easy to perform and especially appropriate for large classes Few experiments require a second class meeting to complete the procedure Each exercise includes many photographs traditional topics and experiments that help students learn about life Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students the style of the instructor and the facilities available Dolphin Biological Investigations Lab Manual specific t/a Brooker Biology Warren Dolphin, 2007-01-16 Developed to accompany the Brooker et al Biology text this lab manual focuses on labs that are investigative and ask students to use more critical thinking and hands on learning The author emphasizes investigative quantitative and comparative approaches to studying the life sciences *Booker Tropical Soil Manual* J.R. Landon, 2014-01-27 First published in 1991 This is a more portable version of the Booker Tropical Soil Manual in which the format and weight of the first edition have been reduced whilst retaining as much as possible of the original clarity It also includes new content and appendices that cover the revised FAO publications on soil classification and on water quality for agriculture **Report of the Chief of Ordnance** United States. Army. Ordnance Department, 1902 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1984 **Booker T. Washington Papers Volume 6** Booker T Washington, Louis R Harlan, 1977 The memoirs and accounts of the Black educator are presented with letters speeches personal documents and other writings reflecting his life and career **A Laboratory Manual of Physics and Applied Electricity** Edward Leamington Nichols, 1894 *Booker Tropical Soil Manual* Booker Agriculture International Limited, 1991 This manual reflects the working practices of Booker Agriculture International BAI which is engaged on agricultural consultancy assignments and land management contracts in the tropics and subtropics It concentrates on aspects of development studies handled by soil scientists **A Practical Guide to Care of Spinal Cord Injuries** Hyun-Yoon Ko, 2023-09-29 This book structured as a collection of questions and answers commonly encountered in the care of individuals with spinal cord injuries aims to facilitate easy access to clinical and practical information for those involved in their treatment The author known for their expertise in spinal cord injuries has developed this book to offer concise knowledge specifically tailored for clinicians and related healthcare professionals engaged in the care of spinal cord injuries Unlike his previous works this book goes beyond the traditional format and incorporates more concise and clinically oriented questions and answers Drawing from the author's practical experience and his role in training resident physicians in spinal cord medicine at the University Hospital the content of this book addresses practical and clinical considerations To enhance clinical understanding the book extensively employs figures and tables throughout its comprehensive coverage of various aspects of spinal cord medicine The author aspires for this book to serve as a valuable clinical companion providing

supplemental practical guidance for daily practice in the field of spinal cord injuries

Practical Manual for

Musculoskeletal Trauma Kwok-Siu Leung, Put-Shui Ko, 2001-05-01 This book provides the practical guidelines and current trends in managing musculoskeletal trauma for first line surgeons serving as a comprehensive and precise quick reference in daily clinical practice The first volume contains the practical protocols for clinical management while the second contains the detailed descriptions of common operations in musculoskeletal trauma The presentations are in the form of flow charts and illustrations which ensures easy and quick cross reference particularly in emergency situations All the authors are experienced surgeons in trauma care and actively involved in acute day to day clinical management of musculoskeletal injuries even the illustrations have been drawn by surgeons

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