

LABORATORY EXERCISE 10

Mendelian/Human Genetics

Introduction

Gregor Mendel is often considered the “father” of modern genetic analysis. His pioneering work with garden peas provided the evidence from which he deduced the primary modes of inheritance of individual genes, often called “Mendelian Genetics.” The primary hypotheses/ideas Mendel described are as follows:

- Genes exist in pairs in diploid organisms
 - The genes can contain different information called alleles (for example, an eye color gene may contain either a brown-eye allele or a blue-eye allele)
 - Of these allele pairs, some alleles are dominant and some are recessive
 - Alleles for the same gene segregate independently of each other during meiosis (this is Mendel’s **law of segregation**)
- When following the inheritance of the alleles of two different genes (for example, eye color and height), Mendel devised the **law of independent assortment**:
 - Alleles for different genes segregate independently of each other during meiosis

The study of genetics relies on a significant amount of vocabulary, and in order to understand and apply genetic principles, a detailed understanding of this vocabulary is required.

- Useful genetics vocabulary includes
 - Homozygous and heterozygous
 - Genotype and phenotype
 - Monohybrid and dihybrid crosses
 - Testcross

In addition, the use of the principles of simple probability can provide an extensive amount of information on how different traits are inherited. Comprehending genetics involves a basic understanding and appreciation of how genes regulate our various traits (dimples, hair color, blood types, for example). The **goal** of this lab is to provide a “**genetics sampler**” or **relatively simple introduction to heredity using common human traits**.

Learning Objectives

1. To define some genetic terms: allele, dominant, recessive, genotype, phenotype, heterozygous, and homozygous.
2. To gain practice working simple genetics problems, using a Punnett square.
3. To observe selected human phenotypes and determine their genotypes.

Materials

- PTC (phenylthiocarbamide) taste strips
- Sodium benzoate taste strips
- Chart for tabulation of class results of human phenotype/genotype determination.
- Blood typing supplies
 - Anti-A and Anti-B sera, slides, toothpicks, sterile lancet, wax pencils, alcohol swabs
 - Beaker containing 10% bleach solution
 - Disposable waste bags

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Genetics Laboratory Exercises Eldon John Gardner, 1956 **Laboratory Exercises in Microbiology** Robert A. Pollack, Lorraine Findlay, Walter Mondschein, R. Ronald Modesto, 2018-07-11 The Laboratory Exercises in Microbiology 5e by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology Genetics Laboratory Exercises John Kuspira, George William Rutherford Walker, 1962 **Laboratory Exercises in Genetics** Louis Levine, Norman M. Schwartz, 1973 **Plant Pathology Concepts and Laboratory Exercises** Robert N. Trigiano, 2007-11-30 Revised and updated with new concepts case studies and laboratory exercises Plant Pathology Concepts and Laboratory Exercises Second Edition supplies highly detailed and accurate information in a well organized and accessible format New additions to the second edition include five new topic and exercise chapters on soilborne pathogens molecular tools biocontrol and plant fungal interactions information on in vitro pathology an appendix on plant pathology careers and how to use and care for the microscope An accompanying cd rom contains figures from the text as well as supplemental full color photos and PowerPoint slides Unique Learning Tools Retaining the informal style of the previous edition this volume begins each topic with a concept box to highlight important ideas Several laboratory exercises support each topic and cater to a wide range of skill sets from basic to complex Procedure boxes for the experimental exercises give detailed outlines and comments on the experiments step by step instruction anticipated results and thought provoking questions Case studies of specific diseases and processes are presented as a bulleted list supplying essential information at a glance Comprehensive Coverage Divided into six primary parts this valuable reference introduces basic concepts of plant pathology with historical perspectives fundamental ideas of disease and disease relationships with the environment It details various disease causing organisms including viruses prokaryotic organisms plant parasitic nematodes fungi plant parasitic seed plants and other biotic and abiotic diseases Exploring various plant pathogen interactions including treatments of molecular attack strategies extracellular enzymes host defenses and disruption of plant function the book presents the basic ideas of epidemiology control strategies and disease diagnosis **Laboratory Exercises in Plant Pathology: An Instructional Kit (Teachers Manual)** A.B.A.M. Baudoin, 2011-01-13 The Teacher s manual contains information designed to facilitate use of this kit by instructors and teaching assistants who may not be familiar with a particular plant pathogen system Included are additional back ground information for instructors sources of materials list of materials needed step wise preparation procedures suggested schedules for conducting the exercises including time required a discussion of expected

results answer to questions and additional references The listing of sources of material provided in case material is not available from a local source or regular supplier *40 Inquiry Exercises for the College Biology Lab* A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics **Molecular Genetic Technologist -**

Basics to Mastery DEAN STRATTON, This definitive guide equips current and aspiring bench professionals with the end to end skills to plan execute validate and report high confidence human DNA RNA tests across PCR Sanger microarray and next generation sequencing You'll move from fundamentals of nucleic acids and instrumentation to assay development method verification validation uncertainty analysis quality control A260 280 RIN Q30 coverage contamination mitigation LIMS traceability and variant interpretation using AMP ACMG frameworks Practical playbooks decision trees and job ready checklists are grounded in real world lab rhythms imagine you're on call and a sequencer flags low Q30 you'll triage library prep cluster density and indexing cross talk step by step then document corrective actions for CAP CLIA or ISO 15189 audits Worked examples mini vivas and scenario based reporting notes prepare you for competency assessments proficiency testing and day one impact on a high throughput clinical floor Wet lab to dry lab extraction quant qual library prep run setup primary tertiary analysis and clinical reporting Validation kits templates for precision accuracy reportable range LoD LoQ matrix effects and carryover studies QC dashboards practical thresholds e.g. Q30 insert size %PF coverage uniformity with troubleshooting trees Interpretation toolkit AMP ACMG classification population databases artifact filtering and confirmatory strategies Compliance ready CAP CLIA and ISO 15189 documentation flows risk management FMEA and audit hygiene Career focus competency checklists viva questions shift hand over scripts and certification exam practice **Science**

Education Peter Csermely, Korado Korlevic, Katalin Sulyok, 2007 Tells why to engage in scientific education of talented students as early as possible to develop the critical minds or scientific method judgments This book discusses the multitudes of initiatives all around the world stating that most of them work in isolation often struggling with lack of resources and stay unrecognized to the general public **Essentials of Medical Genomics** Stuart M. Brown, John G. Hay, Harry Ostrer, 2008-12-29 Six new chapters on vital topics of interest such as multilocus SNP genotyping SNP chips RNAi ChIP chip and genomic tiling arrays New edition responds to reviewers and users desire for greater coverage now the most useful handbook on the market Practical concise summary of everything about genomics and emerging technologies a busy physician or medical student should know Covers concepts and techniques that are in use in medicine now as well as those on the cutting edge of science relevant to medicine from bioinformatics to DNA diagnostics and proteomics NEW Includes

chapter end exercises enhancing the utility of the new edition as a textbook NEW PowerPoint slides of images available at instructor website , **CliffsNotes AP Biology 2021 Exam** Phillip E. Pack,2020-08 CliffsNotes AP Biology 2021 Exam gives you exactly what you need to score a 5 on the exam concise chapter reviews on every AP Biology subject in depth laboratory investigations and full length model practice exams to prepare you for the May 2021 exam Revised to even better reflect the new AP Biology exam this test prep guide includes updated content tailored to the May 2021 exam Features of the guide focus on what AP Biology test takers need to score high on the exam Reviews of all subject areas In depth coverage of the all important laboratory investigations Two full length model practice AP Biology exams Every review chapter includes review questions and answers to pinpoint problem areas *Training and Development Methods* Rishipal,2011 Introduction To Training And Development Human Resource Development And Career Planning Training Need Identification Learning Strategic Training And Development Organising The Training Function Training Programme Design Training Climate Training Methodology Training Methodology Training Methodology Transfer Of Training Training Aids Training Evaluation Employee Obsolescence And Training Training Perspectives And Trends *Anatomy & Physiology Laboratory Manual and E-Labs E-Book* Kevin T. Patton,2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors **Let's Review Regents: Living Environment Revised Edition** Barron's Educational Series,Gregory Scott Hunter,2021-01-05 Barron s Let s Review Regents Living Environment gives students the

step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Biology topics prescribed by the New York State Board of Regents This edition includes One recent Regents exam and question set with explanations of answers and wrong choices Teachers guidelines for developing New York State standards based learning units Two comprehensive study units that cover the following material Unit One explains the process of scientific inquiry including the understanding of natural phenomena and laboratory testing in biology Unit Two focuses on specific biological concepts including cell function and structure the chemistry of living organisms genetic continuity the interdependence of living things the human impact on ecosystems and several other pertinent topics

Using Reflection and Metacognition to Improve Student Learning Naomi Silver,Matthew Kaplan,Danielle LaVaque-Manty,Deborah Meizlish,2023-07-03 Research has identified the importance of helping students develop the ability to monitor their own comprehension and to make their thinking processes explicit and indeed demonstrates that metacognitive teaching strategies greatly improve student engagement with course material This book by presenting principles that teachers in higher education can put into practice in their own classrooms explains how to lay the ground for this engagement and help students become self regulated learners actively employing metacognitive and reflective strategies in their education Key elements include embedding metacognitive instruction in the content matter being explicit about the usefulness of metacognitive activities to provide the incentive for students to commit to the extra effort as well as following through consistently Recognizing that few teachers have a deep understanding of metacognition and how it functions and still fewer have developed methods for integrating it into their curriculum this book offers a hands on user friendly guide for implementing metacognitive and reflective pedagogy in a range of disciplines Offering seven practitioner examples from the sciences technology engineering and mathematics STEM fields the social sciences and the humanities along with sample syllabi course materials and student examples this volume offers a range of strategies for incorporating these pedagogical approaches in college classrooms as well as theoretical rationales for the strategies presented By providing successful models from courses in a broad spectrum of disciplines the editors and contributors reassure readers that they need not reinvent the wheel or fear the unknown but can instead adapt tested interventions that aid learning and have been shown to improve both instructor and student satisfaction and engagement

Limnological Analyses Robert G. Wetzel,Gene E. Likens,2013-06-29 In this thoroughly updated third edition the authors have provided a series of carefully designed and tested field and laboratory exercises that represent the full scope of limnology In using this text students will gain a solid foundation in this complex multidisciplinary field of ecology as they explore the physical chemical and biological characteristics of standing and running waters *Limnological Analyses Third Edition* illustrates accepted standard methods as well as modern metabolic and experimental approaches and their research applications Each exercise is preceded by an introductory section and concludes with questions for students as well as suggestions for further reading As a textbook

Limnological Analyses Third Edition is a highly structured concise presentation with a research oriented approach that openly invites active participation by students

Pharmacognosy Simone Badal McCreath, Yuri N. Clement, 2023-10-13

Pharmacognosy Fundamentals Applications and Strategies Second Edition represents a comprehensive compilation of the philosophical scientific and technological aspects of contemporary pharmacognosy The book examines the impact of the advanced techniques of pharmacognosy on improving the quality safety and effectiveness of traditional medicines and how pharmacokinetics and pharmacodynamics have a crucial role to play in discerning the relationships of active metabolites to bioavailability and function at the active sites as well as the metabolism of plant constituents Structured in seven parts the book covers the foundational aspects of Pharmacognosy the chemistry of plant metabolites their effects other sources of metabolites crude drugs from animals basic animal anatomy and physiology technological applications and biotechnology and the current trends in research New to this edition is a chapter on plant metabolites and SARS Cov 2 extensive updates on existing chapters and the development of a Laboratory Guide to support instructors execute practical activities on the laboratory setting Covers the main sources of natural bioactive substances Contains practice questions and laboratory exercises at the end of every chapter to test learning and retention Describes how pharmacokinetics and pharmacodynamics play a crucial role in discerning the relationships of active metabolites to bioavailability and function at active sites Includes a dedicated chapter on the effect of plant metabolites on SARS CoV 2

The Hidden Curriculum—Faculty-Made Tests in Science Sheila Tobias, Jacqueline Raphael, 2013-06-29 This resource manual for college level science instructors reevaluates the role of testing in their curricula and describes innovative techniques pioneered by other teachers part I examines the effects of the following on lower division courses changes in exam content format and environment revisions in grading practices student response colleague reaction the sharing of new practices with other interested professionals and more The book includes a comprehensive introduction faculty composed narratives commentaries by well known science educators and a visual index to 100 more refined innovations

Concepts Biology Lab Manual Roger Davis, 1995-07

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