

How to Write Biology Lab Reports

"The science laboratory...is where humanity grows greater, stronger & better." --
Microbiologist Louis Pasteur

In some labs we observe nature; in others, we investigate cause-and-effect relationships. To look for cause-and-effect, we do an experiment. In an experiment, the **independent variable [IDV]** is the variable we manipulate (the "cause"). The **dependent variable [DV]** in the experiment is the variable we measure to see if it responds ("the effect").

Before a lab...PRE-LAB! ALL PRE-LABS ARE TYPED!!

Complete a **TYPED "Pre-Lab"**. Your pre-lab is what you use to perform the lab. It generally has 6 parts:

- Title** of the lab. BE SPECIFIC and keep it simple "The Effect of [IDV] on [DV]".
- Research Question:** State precisely and clearly what it is that you will investigate by doing the lab. If doing an experiment, ask "What is the effect of [IDV] on [DV]?" For observation labs, just ask the question naturally.
- Hypothesis & Explanation:** For experiments, propose a relationship between the DV and the IDV & make a prediction about that relationship. Then explain the rationale for your idea by CITING A SOURCE FROM A REPUTABLE WEBSITE!!!. Example: "IF [gas mileage] is related to [tire pressure] AND [for the next month the car's tires will be properly inflated], THEN [the overall gas mileage will increase]. "According to an article in AAA Colorado magazine (PROPERLY CITE!!) about fuel economy..."
- Variables Table:** Good experimental design requires the control of variables that may affect the outcome of your experiment. Create and fill out a table such as this: (each experiment has its own number of relevant variables!)

Relevant Variables	Why Variables Might Affect the Outcome of the Experiment	How Your Method Allows for the Control of (Holds Constant) the Relevant Variables
X		
Y		
Z		

- Methods/Procedures:** List materials needed for the experiment. BE EXPLICIT and BE SPECIFIC about materials required; precise sizes, precise amounts needed, etc.... List directions into a numbered sequence of clear steps that show what actions to take and the order in which to take them. Identify procedural wait time (if any), and include steps that can be initiated while waiting. Someone should be able to replicate your experiment without any questions about your procedures and materials used!
- Data Collection:** Construct one or more **TYPED**, neat, ready-to-use tables for quantitative data (data in the form of numbers). Remember to follow conventional rules when making tables. Data can also be qualitative, such as a color change in a test tube or the reaction of a cell under the microscope. You'll sketch that type of data.

✓ Your pre-lab will be **checked** before we do the lab. Only well-prepared students with **complete pre-labs** earn the opportunity to work in the laboratory; all others will be excluded from the lab to perform classroom service.

During a lab...

Make the observations and/or perform the experiment. Record your data in the table you made. If you change anything (on purpose or accidentally!), make a note of it. The ability to work cooperatively and safely may also be assessed.

After a lab...

Complete the lab report by adding the **final three necessary components**:

- Data Processing & Presentation (MUST BE COMPUTER-GENERATED):** Transform, analyze, and present the data in a new way to effectively communicate what you discovered. Should you average data? Draw a line of best fit on a graph? Either way, if calculations are performed, **show sample calculations!** Now construct a graph with it (bar, line, or pie, as appropriate). **DO NOT GRAPH RAW DATA (UNPROCESSED DATA)!!**
- Conclusion:** Assume the reader is a science-minded, well-educated layperson. **Conclusions have four parts:**
 - Restatement** of the question and hypothesis.
 - Accurate summary of the results** from the lab. Tell us what happened using **actual data** from your experiment in your account. **This should be a good paragraph or two.**
 - Interpretation of the results** — your judgment as to whether the data do or do not support the hypothesis. Identification of at least **three relevant sources of inaccuracy** (limitations, weaknesses, or errors) and how they may have affected your data. How was the design fundamentally flawed? **Don't just use HUMAN ERROR!**
 - Summary statement about the validity of your conclusions based on your analysis.



How To Write A Microbiology Lab Report

Adel M. Mahasneh, Salwa M. Bdour



How To Write A Microbiology Lab Report:

Microbiology Laboratory Manual Adel M. Mahasneh, Salwa M. Bdour, 2006-01-01 This manual is designed to satisfy the needs of students enrolled in B Sc degree program in Biological Microbiological Agricultural and health professions It provides well balanced and chosen collection of relevant practical Microbiology Laboratory experiments Students will perform experiments and report on quantitative as well as descriptive data pertaining to the concept they are tackling The experiments in this manual stresses the quantitative methods experimental controls data analysis as well as report writing The experiments were designed to provide maximum flexibility although each experiment represents well defined concept several experiments may be performed concurrently depending upon availability of tools and equipments as well as time constraints and students numbers in each laboratory session Several appendixes appear at the end of the manual which include staining techniques media composition and some bacterial diagnostic plates Descriptor s MICROBIOLOGY MICROSCOPIC ANALYSIS LABORATORIES TEACHING AIDS

Molecular Microbiology Laboratory Bruce Geller, Katherine Field, 2012-12-31 Molecular Microbiology Laboratory Second Edition is designed to teach essential principles and techniques of molecular biology and microbial ecology to upper level undergraduates majoring in the life sciences and to develop students scientific writing skills A detailed lab preparation manual for instructors and teaching assistants accompanies the lab book and contains a general discussion of scientific writing and critical reading as well as detailed instructions for preparation and peer review of lab reports Each experimental unit is accompanied by a number of additional writing exercises based upon primary journal articles Exposes students to the new molecular based techniques Provides faculty with an authoritative accessible resource for teaching protocols The only manual to incorporate writing exercises presentation skills and tools for reading primary literature into the curriculum Based on a successful course for which the author won a teaching award New to this Edition Presents a real world study of bacterial populations in the environment in the final experiment Provides an overview of molecular biology in a new review chapter Demonstrates how to design an experiment and how to interpret the results Covers grant proposal writing and how panels review proposals Presents guidance on public speaking and preparing PowerPoint presentations Includes tutorials on three widely used software packages

Introductory Microbiology Lab Skills and Techniques in Food Science Cangliang Shen, Yifan Zhang, 2021-11-02 Introductory Microbiology Lab Skills and Techniques in Food Science covers topics on isolation identification numeration and observation of microorganisms biochemistry tests case studies clinical lab tasks and basic applied microbiology The book is written technically with figures and photos showing details of every lab procedure This is a resource that is skills based focusing on lab technique training It is introductory in nature but encourages critical thinking based on real case studies of what happens in labs every day and includes self evaluation learning questions after each lab section This is an excellent guide for anyone who needs to understand how to apply microbiology to the lab in a practical

setting Presents step by step lab procedures with photos in lab setting Includes case studies of microorganism causing infectious disease Provides clinical microbial lab tasks to mimic real life situations applicable to industry

A Strategic Guide to Technical Communication - Second Edition (US) Heather Graves,Roger Graves,2012-05-23 A Strategic Guide to Technical Communication incorporates useful and specific strategies for writers to enable them to create aesthetically appealing and usable technical documentation These strategies have been developed and tested on a thousand students from a number of different disciplines over twelve years and three institutions The second edition adds a chapter on business communication reworks the discussion on technical style and expands the information on visual communication and ethics into free standing chapters The text is accompanied by a passcode protected website containing materials for instructors PowerPoint lectures lesson plans sample student work and helpful links

A Concise Guide to Technical Communication Heather Graves,Roger Graves,2020-11-06 This compact but complete guide shows that less is more with fewer extraneous details getting in the way of students trying to learn on the run it allows them to focus on the most important principles of effective technical communication The Concise Guide takes a rhetorical approach to technical communication instead of setting up a list of rules that should be applied uniformly to all writing situations it introduces students to the bigger picture of how the words they write can affect the people intended to read them Assignments and exercises are integrated throughout to reinforce and test knowledge

A Strategic Guide to Technical Communication - Second Edition (Canadian) Heather Graves,Roger Graves,2011-12-20 A Strategic Guide to Technical Communication incorporates useful and specific strategies for writers to create aesthetically appealing and usable technical documentation These strategies have been developed and tested on a thousand students from a number of different disciplines over twelve years and three institutions The second edition adds a chapter on business communication reworks the discussion on technical style and expands the information on visual communication and ethics into free standing chapters Particular attention is paid throughout to the needs of Canadian students

Troubleshooting and Problem-Solving in the IVF Laboratory Kay Elder,Marc Van den Bergh,Bryan Woodward,2015-06-18 Helping IVF laboratories and clinics to maintain the highest success rates possible this is essential reading for every IVF laboratory

Basic Skills in Interpreting Laboratory Data Mary Lee,2013-06-01 Basic Skills in Interpreting Laboratory Data Fifth Edition is the classic and most popular pharmacy laboratory text because it is the only reference on this subject written by pharmacists for pharmacists Students find this guide a clear and useful introduction to the fundamentals of interpreting laboratory test results The book enhances the skills pharmacists need by providing essential information on common laboratory tests used to screen for or diagnose diseases and monitor the effectiveness and safety of treatment and disease severity Each chapter contains learning objectives case studies bibliographies and charts that summarize the causes of high and low test results New for this edition Updated and expanded Quick View tables in each chapter now match those in the popular quick reference Interpreting

Laboratory Data A Point of Care Guide New glossary of acronyms is right up front for a streamlined reference Normal value ranges of all tests have been standardized by an expert pathologist New and updated cases in each chapter apply your Basic Skills in clinical situations Reorganized to highlight the application of concepts by body system and in special populations Basic Skills in Interpreting Laboratory Data offers features that will help pharmacy students not only understand and engage with the material but also will streamline the transition from classroom to practice setting After studying with this trusted text students and pharmacists will more effectively monitor patient therapy evaluate test results and improve outcomes through optimal and focused pharmacotherapy

Laboratory Experiments in Microbiology Ted R. Johnson, Christine L. Case, 2004 Newly revised to accompany Microbiology An Introduction Eighth Edition by Tortora Funke and Case this lab manual includes 57 experiments that demonstrate the broad spectrum of microbiology Intended as a manual of basic microbiological techniques this popular lab manual features applications for undergraduate students in diverse areas including the biological sciences the allied health sciences agriculture environmental science nutrition pharmacy and various pre professional programs Experiments have been refined in this new edition to encourage students to develop critical thinking skills as well as learn basic facts and technical skills Material with direct application to clinical and commercial labs is included wherever possible and increased emphasis is placed on lab safety

How to Write a Lab Report Jerome N. Borowick, 2000 This guide outlines an effective methodology for writing the experimental laboratory report showing how skills that emphasize correct grammar and appropriate style must be adapted to writing reports with a purpose reports that emphasize structure and content to persuade the readers It first covers basic principles then explores each section of a report step by step with sample report sections and critiques The Laboratory Report Writing Process Principles of Clear Lab Report Writing Rules of Practice for Lab Report Writing Graphics The Title Page and Table of Contents The Beginning of the Report The Body of the Report The Ending of the Report A Sample Student Lab Report For anyone who must write lab reports as part of their professional responsibilities

Emerging Infectious Diseases , 2002

Report on the PCB Incident in the Western United States United States. Food Safety and Quality Service, 1980

Freedom and Social Inclusion in a Connected World Yingqin Zheng, Pamela Abbott, Jose Antonio Robles-Flores, 2022-11-19 This book constitutes the refereed proceedings of the 17th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries ICT4D 2022 which was supposed to be held in Lima Peru in May 2021 but was held virtually instead due to the COVID 19 pandemic The 40 revised full papers presented were carefully reviewed and selected from 58 submissions The papers present a wide range of perspectives and disciplines including but not limited to public administration entrepreneurship business administration information technology for development information management systems organization studies philosophy and management They are organized in the following topical sections digital platforms and gig economy education and health inclusion and participation and business innovation and data privacy

Implementing Continuous Quality Improvement in Health Care Curtis McLaughlin, Julie Johnson, William Sollecito, 2012

This collection of 18 case studies covers a broad range of subjects related to health care quality improvement efforts. Ideal as a complement to the new Fourth Edition of *Continuous Quality Improvement in Health Care*, these case studies explore themes such as CQI in Ghana, Malaria Control, CQI to reduce central line infections in pediatric hospital, a mother's advocacy group against medical errors, WHO Safe Surgery Saves Lives Campaign, The Malcolm Baldrige Award Process in Health Care, Comparison of NICE and similar agencies for comparative effectiveness research, and much more. *Methods in*

Biotechnology Seung-Beom Hong, M. Bazlur Rashid, Lory Z. Santiago-Vázquez, 2016-05-12 As rapid advances in biotechnology occur, there is a need for a pedagogical tool to aid current students and laboratory professionals in biotechnological methods. *Methods in Biotechnology* is an invaluable resource for those students and professionals. *Methods in Biotechnology* engages the reader by implementing an active learning approach, providing advanced study questions as well as pre and post lab questions for each lab protocol. These self-directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level, utilizing critical thinking and troubleshooting skills. This text is broken into three sections based on level: *Methods in Biotechnology*, *Advanced Methods in Biotechnology I*, and *Advanced Methods in Biotechnology II*. Each section contains 14-22 lab exercises with instructor notes in appendices, as well as an answer guide, as a part of the book companion site. This text will be an excellent resource for both students and laboratory professionals in the biotechnology field.

Antimicrobial Susceptibility Testing Protocols Richard Schwalbe, Lynn Steele-Moore, Avery C. Goodwin, 2007-05-22 The clinical microbiology laboratory is often a sentinel for the detection of drug-resistant strains of microorganisms. Standardized protocols require continual scrutiny to detect emerging phenotypic resistance patterns. The timely notification of clinicians with susceptibility results can initiate the alteration of antimicrobial chemotherapy and

Laboratory and Diagnostic Testing in Ambulatory Care - E-Book Martha (Marti) Garrels, Carol S. Oatis, 2014-11-17 Learn the lab testing skills you need to know. *Laboratory and Diagnostic Testing in Ambulatory Care: A Guide for Health Care Professionals*, 3rd Edition, provides in-depth coverage of the most common procedures and techniques of all the new CLIA waived point-of-care tests, along with some moderately complex tests. Clear, step-by-step instructions and full-color photographs make it easy to perform each test and procedure. To reflect the expanding roles of medical assistants and medical lab technicians, this edition adds a new chapter on electrocardiography and spirometry. Written by noted medical assisting educator Marti Garrels, this guide also includes an Evolve companion website with videos, structured lab notes, and activities for extra practice with clinical laboratory skills. Comprehensive coverage of the most common CLIA waived tests prepares healthcare professionals for lab testing in the ambulatory setting. A triad organization gives chapters a consistent, easy-to-follow format with 1) fundamental concepts, 2) step-by-step instructions for CLIA waived procedures, and 3) advanced concepts that lead to a higher level of critical thinking and decision making. A full-color atlas section shows common

laboratory and diagnostic findings including depictions of cells casts and crystals Learning objectives begin each chapter with goals for what you should accomplish serve as checkpoints for comprehension and skills mastery and provide a study tool in preparation for examinations Procedure boxes provide step by step instructions and full color photos and illustrations for today s commonly requested CLIA waived lab tests Key terms are listed and defined at the beginning of each chapter as well as included in the book s glossary Common abbreviations and acronyms associated with CLIA waived testing are listed and defined at the beginning of each chapter Review questions at the end of each chapter ask you to recall and assimilate the information you ve learned A workbook matches the chapters in the textbook offering activities and exercises to reinforce laboratory concepts terminology and procedures Sold separately Expert author Marti Garrels brings years of on the job experience an advanced MSA degree dual degrees in medical technology and medical assisting and classroom experience as an instructor and as a medical assisting program director References at the end of each chapter cite related websites for further reading and research An Evolve companion website includes various activities and exercises to enhance learning with problem solving scenarios NEW illustrations and photographs showcase new technology and the performance of lab testing tasks NEW Electrocardiography and Spirometry chapter focuses on the role of the medical assistant and the lab technician in these diagnostic tests NEW content updates the text with a focus on new technology and significant advances made in recent years including the latest CLIA waived test methods

Antimicrobial Stewardship Kerry LaPlante, Cheston Cunha, Haley Morrill, Louis Rice, Eleftherios Mylonakis, 2016-12-23 In an age where antimicrobial resistance amongst pathogens grows more prevalent particularly in the hospital setting antimicrobial stewardship is an evidence based proven measure in the battle against resistance and infection This single comprehensive definitive reference work is written by an international team of acknowledged experts in the field The authors explore the effective use of coordinated antimicrobial interventions to change prescribing practice and help slow the emergence of antimicrobial resistance ensuring that antimicrobials remain an effective treatment for infection Amongst the first of its kind this book provides infectious disease physicians administrators laboratory pharmacy nursing and medical staff with practical guidance in setting up antimicrobial stewardship programs in their institutions with the aim of selecting the optimal antimicrobial drug regimen dose duration of therapy and route of administration

STS-1 Medical Report Sam L. Pool, 1981 The medical operations report for STS 1 which includes a review of the health of the crew before during and immediately after the first shuttle orbital flight April 12 14 1981 is presented Areas reviewed include health evaluation medical debriefing of crewmembers health stabilization program medical training medical kit carried in flight tests and countermeasures for space motion sickness cardiovascular profile biochemistry and endocrinology results hematology and immunology analyses medical microbiology food and nutrition potable water shuttle toxicology radiological health cabin acoustical noise Also included is information on environmental effects of shuttle launch and landing medical information management and management planning and implementation of the medical program

Self-assessment Questions for Clinical Molecular Genetics Haiying Meng, 2019-05-28 Review Questions of Clinical Molecular Genetics presents a comprehensive study guide for the board and certificate exams presented by the American College of Medical Genetics and Genomics ACMG and the American Board of Medical Genetics and Genomics ABMGG. It provides residents and fellows in genetics and genomics with over 1 000 concise questions ranging from topics in cystic fibrosis to genetic counseling to trinucleotide repeat expansion disorders. It puts key points in the form of questions, thus challenging the reader to retain knowledge. As board and certificate exams require knowledge of new technologies and applications, this book helps users meet that challenge. Includes over 1 0000 multiple choice USMLE style questions to help readers prepare for specialty exams in Clinical Cytogenetics and Clinical Molecular Genetics. Designed to assist clinical molecular genetic fellows, genetic counselors, medical genetic residents and fellows, and molecular pathologist residents in preparing for their certification exam. Assists trainees on how to follow guidelines and put them in practice.

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