

Spring 2013
Section 2387
Wednesday 2:30 – 4:25

The College of Staten Island
Department of Biology
Biology 107 – Principles of Biology I Laboratory

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REQUIRED TEXT: Laboratory Manual for Biology 10th or 11th Edition by Sylvia S. Mader
ISBN 978-0-07-747971-8 (11th ed.), ISBN 978-0-07-722617-6 (10th ed.)
Please bring the lab manual to each class period.

Course Description and Expectations

This course is designed to illustrate the principles taught in Bio 106. It is a laboratory course and not a lecture; thus, you are expected to read the material before coming to class so you can apply your knowledge to the lab activities. If you have questions on the reading, email me and I will be more than happy to help you. In addition to the required readings for each week, you may find it helpful to read the corresponding chapter in the 106 textbook.

During laboratory activities, you are expected to follow the given protocol in the lab manual and answer any questions given in the manual. Answering the questions in the lab manual will prepare you for both the quizzes and the final exam.

Grading

Your grade breakdown will be as follows:

Weekly Quizzes & Participation: 67%

Final Exam: 33%

Weekly Quizzes: COME PREPARED (do the required readings!) There will be a quiz at the start of lab every week lasting 15 minutes. If you miss the quiz period, you will receive a 0 for that quiz. The quizzes will be worth 10 points total – 5 points cover the reading assignment for the current week and 5 points reviewing the concepts from the previous week. This ensures that a) you are prepared for class and b) you understood the concepts learned the previous week. Showing up late will result in a missing quiz score. Quiz make-ups are not allowed without a doctor's note or previous arrangements. Please try to speak with me in advance about any conflicts.

Behavior and Participation Points: Your behavior and participation grade will be based on participation in the lab exercises and adherence to the rules. Points will be deducted for non-cooperative behavior. This includes leaving before completing the lab and failure to clean your lab bench. Distractions are not permitted. No use of cell phones, personal media players, food, or drink in the laboratory room. If you need a drink, snack, or bathroom break, you are free to do so outside of the room. Additionally, please see the academic honesty policy attached regarding cheating. Anyone caught cheating will be faced with disciplinary action.

Final Exam: A cumulative lab practical to be held on the last day of class.

Absence Policy

According to CUNY policy, more than two unexcused absences (15% of credit hours) **results in an automatic failure of the course.**

Biology 107 Lab Manual Experimental Design

Rosina Ehmann



Biology 107 Lab Manual Experimental Design:

Experimental Design for Laboratory Biologists Stanley E. Lazic, 2016-12-08 Specifically intended for lab based biomedical researchers this practical guide shows how to design experiments that are reproducible with low bias high precision and widely applicable results With specific examples from research using both cell cultures and model organisms it explores key ideas in experimental design assesses common designs and shows how to plan a successful experiment It demonstrates how to control biological and technical factors that can introduce bias or add noise and covers rarely discussed topics such as graphical data exploration choosing outcome variables data quality control checks and data pre processing It also shows how to use R for analysis and is designed for those with no prior experience An accompanying website <https://stanlazic.github.io/EDLB/html> includes all R code data sets and the labstats R package This is an ideal guide for anyone conducting lab based biological research from students to principle investigators working in either academia or industry

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979

Resources in Education, 1996 *Research in Education*, 1971 **Experimental Design and Reproducibility in Preclinical Animal Studies** José M. Sánchez Morgado, Aurora Brønstad, 2021-08-31 This highly readable text provides grounds on how to plan and conduct animal experiments that can be reproduced by others The book touches on factors that may impact the reproducibility of animal studies including the animal genetic background the animal microbial flora environmental and physiological variables affecting the animal animal welfare statistics and experimental design systematic reviews of animal studies and the publishing process The book addresses advanced undergraduates graduate students and all scientists working with animals

A Guide to Sample Size for Animal-based Studies Penny S. Reynolds, 2023-09-12 A Guide to Sample Size for Animal based Studies Understand a foundational area of experimental design with this innovative reference Animal based research is an essential part of basic and preclinical research but poses a unique set of experimental design challenges The most important of these are the 3Rs Replacement Reduction and Refinement the principles comprising the ethical framework for humane animal based studies However many researchers have difficulty navigating the design trade offs necessary to simultaneously minimize animal use and produce scientific information that is both rigorous and reliable A Guide to Sample Size for Animal based Studies meets this need with a thorough accessible reference work to the subject This book provides a straightforward systematic approach to rightsizing animal based experiments with sample size estimates based on the fundamentals of statistical thinking structured research questions variation control and appropriate design of experiments The result is a much needed guide to planning animal based experiments to ensure scientifically valid and reliable results This book offers Step by step guidance in diverse methods for approximating and refining sample size Detailed treatment of research topics specific to animal based research including pilot feasibility and proof of concept studies Sample size approximation methods for different types of data binary

continuous ordinal time to event and different study types description comparison nested designs reference interval construction and dose response studies Numerous worked examples using real data from published papers together with SAS and R code A Guide to Sample Size for Animal based Studies is a must have reference for preclinical and veterinary researchers as well as ethical oversight committees and policymakers *Using the Biological Literature* Diane Schmidt, 2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries *Using the Biological Literature A Practical Guide* Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition *Biology of Copper Complexes* John R. J. Sorenson, 2012-12-06 In 1928 it was discovered that copper was essential for normal human metabolism Ten years later 1938 it was observed that patients with rheumatoid arthritis had a higher than normal serum copper concentration which returned to normal with remission of this disease Thirteen years later it was found that copper complexes were effective in treating arthritic diseases The first report that copper complexes had antiinflammatory activity in an animal model of inflammation appeared twenty two years after the discovery of essentiality In 1976 it was suggested that the active forms of the anti arthritic drugs are their copper complexes formed in vivo This suggestion was confirmed and extended in the interim with over 1000 recent publications and many of these were addressed in the proceedings of our first symposium published in 1982 The present symposium was organized to present new normal physiological nutritional and biochemical aspects of essential metal element metabolism as well as variations in metabolism associated with disease states In addition new data concerning antimicrobial antiinflammatory antiulcer anticancer anticarcinogenic analgesic and radioprotectant activities of copper complexes were presented These activities are consistent with the notion that they represent the facilitation of normal copper dependent metabolic processes in disease states The presentations and interactive discussions that followed are contained in these proceedings John R J Sorenson Dedication These proceedings are dedicated to those who made this

truly memorable scientific and social Arkansas experience possible

Handbook of Photosynthesis Mohammad

Pessarakli, 2018-09-03 Since the publication of the previous editions of the Handbook of Photosynthesis many new ideas on photosynthesis have emerged in the past decade that have drawn the attention of experts and researchers on the subject as well as interest from individuals in other disciplines Updated to include 37 original chapters and making extensive revisions to the chapters that have been retained 90% of the material in this edition is entirely new With contributions from over 100 authors from around the globe this book covers the most recent important research findings It details all photosynthetic factors and processes under normal and stressful conditions explores the relationship between photosynthesis and other plant physiological processes and relates photosynthesis to plant production and crop yields The third edition also presents an extensive new section on the molecular aspects of photosynthesis focusing on photosystems photosynthetic enzymes and genes New chapters on photosynthesis in lower and monocellular plants as well as in higher plants are included in this section The book also addresses growing concerns about excessive levels and high accumulation rates of carbon dioxide due to industrialization It considers plant species with the most efficient photosynthetic pathways that can help improve the balance of oxygen and carbon dioxide in the atmosphere Completely overhauled from its bestselling predecessors the Handbook of Photosynthesis Third Edition provides a nearly entirely new source on the subject that is both comprehensive and timely It continues to fill the need for an authoritative and exhaustive resource by assembling a global team of experts to provide thorough coverage of the subject while focusing on finding solutions to relevant contemporary issues related to the field

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web konstantin grcic is one of the most influential designers of our time combining industrial aesthetics and experimental artistic elements into works that are both avant garde and functional

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web background grcic was born in munich germany in 1965 to a serbian father a german mother and grew up in wuppertal 6 7 8 9 his father born in belgrade former yugoslavia collected 18th century art and his mother was an art dealer 7

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web the exhibition konstantin grcic panorama provides a comprehensive overview of grcic's work and sheds light on his inspirations and work processes

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web sep 14 2014 konstantin grcic panorama is an exhibition of the vitra design museum and z33 house for contemporary art hasselt belgium where web for interdisciplinary research expertise was a major scientific collaborator the exhibition will be shown at z33 from 08/02 to 24/05 2015 the opening will be on 07/02 2015

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web a walk through of the exhibition konstantin grcic panorama at the vitra design museum with an introduction by german designer konstantin grcic and the director

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web konstantin grcic was trained as a cabinetmaker at parnham college in dorset before studying industrial design at the royal college of art in london in 1991 he set up his own practice konstantin grcic design the vitra design museum devoted a monographic exhibition to grcic and his

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