

# Data And Analysis For Pblu Lab Answers

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*Digital Image Processing* - Wilhelm Burger 2012-01-19

Written as an introduction for undergraduate students, this textbook covers the most important methods in digital image processing. Formal and mathematical aspects are discussed at a fundamental level and various practical examples and exercises supplement the text. The book uses the image processing environment ImageJ, freely distributed by the National Institute of Health. A comprehensive website supports the book, and contains full source code for all examples in the book, a question and answer forum, slides for instructors, etc. Digital Image Processing in Java is the definitive textbook for computer science students studying image processing and digital processing.

*Molecular Cloning* - Joseph Sambrook 2003

**Computational Continuum Mechanics of Nanoscopic Structures** -

Esmaeel Ghavanloo 2019-02-19

This book offers a comprehensive treatment of nonlocal elasticity theory as applied to the prediction of the mechanical characteristics of various types of biological and non-biological nanoscopic structures with different morphologies and functional behaviour. It combines fundamental notions and advanced concepts, covering both the theory of nonlocal elasticity and the mechanics of nanoscopic structures and systems. By reporting on recent findings and discussing future challenges, the book seeks to foster the application of nonlocal elasticity based approaches to the emerging fields of nanoscience and nanotechnology. It is a self-contained guide, and covers all relevant background information, the requisite mathematical and computational techniques, theoretical assumptions, physical methods and possible limitations of the nonlocal approach, including some practical applications. Mainly written for researchers in the fields of physics, biophysics, mechanics, and nanoscience, as well as computational engineers, the book can also be used as a reference guide for senior undergraduate and graduate students, as well as practicing engineers working in a range of areas, such as computational condensed matter physics, computational materials science, computational nanoscience and nanotechnology, and nanomechanics.

*Engineering Geology and the Environment* - Paul G. Marinos 1997

*PBL in the Elementary Grades* - Sara Hallermann 2011-03

**America's Lab Report** - National Research Council 2006-01-20

Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all student have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum- and how that can be accomplished.

*Plant Meiosis* - Mónica Pradillo 2020-10-18

This volume looks at the latest techniques used by the meiosis research community to study plant meiosis. The chapters in this book are organized into four parts: Part One discusses cytological and imaging approaches to study meiosis and chromosome dynamics in Arabidopsis (in both diploid and polyploid backgrounds); Part Two talks about using cytological methods to study meiosis in other plant species; Part Three focuses on molecular and biochemical approaches to look at plant meiosis; and Part Four explores further procedures and experiments that are helpful in learning more about plant meiosis. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and cutting-edge, *Plant Meiosis: Methods and Protocols* is a valuable resource for both novice and expert researchers who are interested in learning more about this developing field.

**Lining of Waste Impoundment and Disposal Facilities** - 1980

*Embedded Formative Assessment* - Dylan Wiliam 2011-11-01

Formative assessment plays an important role in increasing teacher quality and student learning when it's viewed as a process rather than a tool. Emphasizing the instructional side of formative assessment, this book explores in depth the use of classroom questioning, learning intentions and success criteria, feedback, collaborative and cooperative learning, and self-regulated learning to engineer effective learning environments for students.

*Principles of Gene Manipulation and Genomics* - Sandy B. Primrose 2013-05-28

The increasing integration between gene manipulation and genomics is embraced in this new book, *Principles of Gene Manipulation and Genomics*, which brings together for the first time the subjects covered by the best-selling books *Principles of Gene Manipulation* and *Principles of Genome Analysis & Genomics*. Comprehensively revised, updated and rewritten to encompass within one volume, basic and advanced gene manipulation techniques, genome analysis, genomics, transcriptomics, proteomics and metabolomics Includes two new chapters on the applications of genomics An accompanying website - [www.blackwellpublishing.com/primrose](http://www.blackwellpublishing.com/primrose) - provides instructional materials for both student and lecturer use, including multiple choice questions, related websites, and all the artwork in a downloadable format. An essential reference for upper level undergraduate and graduate students of genetics, genomics, molecular biology and recombinant DNA technology.

**From Gene to Protein** - Julius Schultz 1982

**Molecular Biology and Genetic Engineering** - P. K. Gupta 2008

PART I Molecular Biology 1. Molecular Biology and Genetic Engineering Definition, History and Scope 2. Chemistry of the Cell: 1. Micromolecules (Sugars, Fatty Acids, Amino Acids, Nucleotides and Lipids) Sugars (Carbohydrates) 3. Chemistry of the Cell . 2. Macromolecules (Nucleic Acids; Proteins and Polysaccharides) Covalent and Weak Non-covalent Bonds 4. Chemistry of the Gene: Synthesis, Modification and Repair of DNA DNA Replication: General Features 5. Organisation of Genetic Material 1. Packaging of DNA as Nucleosomes in Eukaryotes Techniques Leading to Nucleosome Discovery 6. Organization of Genetic Material 2. Repetitive and Unique DNA Sequences 7. Organization of Genetic Material: 3. Split Genes, Overlapping Genes, Pseudogenes and Cryptic Genes Split Genes or .Interrupted Genes 8. Multigene Families in Eukaryotes 9. Organization of Mitochondrial and Chloroplast Genomes 10. The Genetic Code 11. Protein Synthesis Apparatus Ribosome, Transfer RNA and Aminoacyl-tRNA Synthetases Ribosome 12. Expression of Gene . Protein Synthesis 1. Transcription in Prokaryotes and

Eukaryotes 13. Expression of Gene: Protein Synthesis: 2. RNA Processing (RNA Splicing, RNA Editing and Ribozymes) Polyadenylation of mRNA in Prokaryotes Addition of Cap (m7G) and Tail (Poly A) for mRNA in Eukaryotes 14. Expression of Gene: Protein Synthesis: 3. Synthesis and Transport of Proteins (Prokaryotes and Eukaryotes) Formation of Aminoacyl tRNA 15. Regulation of Gene Expression: 1. Operon Circuits in Bacteria and Other Prokaryotes 16. Regulation of Gene Expression . 2. Circuits for Lytic Cycle and Lysogeny in Bacteriophages 17. Regulation of Gene Expression 3. A Variety of Mechanisms in Eukaryotes (Including Cell Receptors and Cell Signalling) PART II Genetic Engineering 18. Recombinant DNA and Gene Cloning 1. Cloning and Expression Vectors 19. Recombinant DNA and Gene Cloning 2. Chimeric DNA, Molecular Probes and Gene Libraries 20. Polymerase Chain Reaction (PCR) and Gene Amplification 21. Isolation, Sequencing and Synthesis of Genes 22. Proteins: Separation, Purification and Identification 23. Immunotechnology 1. B-Cells, Antibodies, Interferons and Vaccines 24. Immunotechnology 2. T-Cell Receptors and MHC Restriction 25. Immunotechnology 3. Hybridoma and Monoclonal Antibodies (mAbs) Hybridoma Technology and the Production of Monoclonal Antibodies 26. Transfection Methods and Transgenic Animals 27. Animal and Human Genomics: Molecular Maps and Genome Sequences Molecular Markers 28. Biotechnology in Medicine: 1. Vaccines, Diagnostics and Forensics Animal and Human Health Care 29. Biotechnology in Medicine 2. Gene Therapy Human Diseases Targeted for Gene Therapy Vectors and Other Delivery Systems for Gene Therapy 30. Biotechnology in Medicine: 3. Pharmacogenetics / Pharmacogenomics and Personalized Medicine Phannacogenetics and Personalized 31. Plant Cell and Tissue Culture' Production and Uses of Haploids 32. Gene Transfer Methods in Plants 33. Transgenic Plants . Genetically Modified (GM) Crops and Floricultural Plants 34. Plant Genomics: 35. Genetically Engineered Microbes (GEMs) and Microbial Genomics References

Recombinant Gene Expression - Paulina Balbas 2008-02-04

Since newly created beings are often perceived as either wholly good or bad, the genetic alteration of living cells impacts directly on a symbolic meaning deeply imbedded in every culture. During the earlier years of gene expression research, te- nological applications were confined mainly to academic and industrial laboratories, and were perceived as highly beneficial since molecules that were previously unable to be separated or synthesized became accessible as therapeutic agents. Such were the success stories of hormones, antibodies, and vaccines produced in the bacterium *Escherichia coli*. Originally this bacterium gained fame among humans for being an unwanted host in the intestine, or worse yet, for being occasionally dangerous and pathogenic. H- ever, it was easily identified in contaminated waters during the 19th century, thus becoming a clear indicator of water pollution by human feces. Tamed, cultivated, and easily maintained in laboratories, its fast growth rate and metabolic capacity to adjust to changing environments fascinated the minds of scientists who studied and modeled such complex phenomena as growth, evolution, genetic exchange, infection, survival, adaptation, and further on—gene expression. Although at the lower end of the complexity scale, this microbe became a very successful model system and a key player in the fantastic revolution kindled by the birth of recombinant DNA technology.

*Radiogenic Age and Isotopic Studies* - Geological Survey of Canada 1997  
Collection of reports presenting data from the Geochronology Section. Reports make full presentation of the data, relate these to field settings, and make comparatively short interpretations. Other geochronological and isotope data produced in the laboratory, but published in outside journals or separate GSC publications, are summarized at the end of the report.

**Woman's Who's who of America** - John W. Leonard 1914

"The volume contains brief personal sketches of 9644 women, of whom 6303 are or have been married, and 3341 are maidens. Every state in the United States and every province in the Dominion of Canada is represented."--Page 22

Molecular Basis of Aging - Alvaro Macieira-Coelho 2017-11-22

Using a new, integrative approach, *Molecular Basis of Aging* describes the aging phenomenon within mammalian organisms from the perspective of changes in information storage and coordination between hierarchical orders of structure. This unique approach provides the reader with a thorough insight into the evolution of molecular, cellular, tissue, and organ systems and processes in mammals. This informative volume contains up-to-date reviews of:

*Laboratory Manual for Biotechnology* - Verma, Ashish S./ Das Surajit & Singh Anchal 2014

*Laboratory Manual in Biotechnology Students Suggestions to Medical Authors and A.M.A. Style Book* - American Medical Association 1919

*Phage Display* - Carlos F. Barbas 2004-10-12

Phage-display technology has begun to make critical contributions to the study of molecular recognition. DNA sequences are cloned into phage, which then present on their surface the proteins encoded by the DNA. Individual phage are rescued through interaction of the displayed protein with a ligand, and the specific phage is amplified by infection of bacteria. Phage-display technology is powerful but challenging and the aim of this manual is to provide comprehensive instruction in its theoretical and applied so that any scientist with even modest molecular biology experience can effectively employ it. The manual reflects nearly a decade of experience with students of greatly varying technical expertise and experience who attended a course on the technology at Cold Spring Harbor Laboratory. Phage-display technology is growing in importance and power. This manual is an unrivalled source of expertise in its execution and application.

**Genetic Transformation of Plants** - John Flex Jackson 2003-07-11

Whilst genetic transformation of plants is commonly viewed as a means of bringing about plant improvement, it has not so readily been recognised as a tool for analysing the function of plant genes. This book is unusual in that it focuses on the genetic transformation of a range of plants using a number of different methods. Many plants have been found to be quite difficult to transform, and so various techniques were developed. These techniques include: *Agrobacterium* suspension drops, electroporation, PEG, "whiskers", and various biolistic methods. A chapter on intellectual and property rights is included.

*5 Steps to a 5 AP Biology, 2014-2015 Edition* - Mark Anestis 2013-07-24

A PERFECT PLAN for the PERFECT SCORE STEP 1 Set up your study plan with three customized study schedules STEP 2 Determine your readiness with an AP-style diagnostic exam STEP 3 Develop the strategies that will give you the edge on test day STEP 4 Review the terms and concepts you need to score high STEP 5 Build your confidence with full-length practice exams

**INIS Atomindex** - 1978

*DNA Science* - David A. Micklos 1990

This laboratory text combines the theory, practice, and applications of recombinant DNA technology into one articulated package. Unlike super texts that can only be sampled by even the most ambitious instructor or student, *DNA Science* is designed to be read from cover to cover. The eight text chapters are written in a semi-journalistic style and adopt a historical perspective to explain where DNA science has come from and where it is going. Combining the unique perspectives of both a research biologist and a science writer, the topical treatment integrates up-to-the-minute examples drawn directly from the research literature. Extensively tested by thousands of high school and college teachers and students in 25 states and Canada, the ten laboratory experiments cover the basic techniques of gene isolation and analysis. The experiments engender systematic repetition to build student confidence and mastery of techniques. Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare, and flowcharts and icons make the protocols easy to follow. The laboratory course is completely supported by quality-assured Carolina Biological Supply Company products -- from bulk reagents, to reusable reagent systems, to single-use kits -- satisfying a range of teaching applications. Truly a first course in recombinant DNA technology, the laboratory sequence presupposes no prior experience on the part of the instructor or student. Structured to follow directly from an introduction to principles of biology, the experiments are equally appropriate for the advanced high school student and the beginning college student. The book can be used as the first course in a molecularbiology sequence, be integrated as a genetics/DNA structure component of a general biology course, or be used as a unit within a microbiology or genetics course. The text is suitable for introducing recombinant DNA in science and society courses.

Physics Briefs - 1992

**Government Reports Annual Index** - 1993

**Phenolic Metabolism in Plants** - Ragai K. Ibrahim 2012-12-06

This volume contains reviews presented at the 31 st annual meeting of the Phytochemical Society of North America, held at Colorado State University in Fort Collins, Colorado on June 22-26, 1991. This

symposium, entitled Phenolic Metabolism in Plants, celebrated the origin of this society as the Plant Phenolics Group of North America; the first symposium, entitled Biochemistry of Plant Phenolic Substances, was also held at Fort Collins from August 31 to September 1, 1961. A brief history of the Society is presented in Chapter 12 by Stewart Brown, one of the original founders of the Society. We dedicate this volume to Hans Grisebach, 1926-1990, Professor of Biochemistry at the Biologisches Institut II, Freiburg, Germany, where he headed for many years a laboratory responsible for major advances in the area of phenolic metabolism; this will be self evident from the numerous bibliographical references cited in the literature for papers by his Freiburg group from about 1958 until now, and subsequently by former students and collaborators. His impact on the data reviewed in this volume will testify to this.

**DNA Science** - David A. Micklos 2003

This is the second edition of a highly successful textbook (over 50,000 copies sold) in which a highly illustrated, narrative text is combined with easy-to-use thoroughly reliable laboratory protocols. It contains a fully up-to-date collection of 12 rigorously tested and reliable lab experiments in molecular biology, developed at the internationally renowned Dolan DNA Learning Center of Cold Spring Harbor Laboratory, which culminate in the construction and cloning of a recombinant DNA molecule. Proven through more than 10 years of teaching at research and nonresearch colleges and universities, junior colleges, community colleges, and advanced biology programs in high school, this book has been successfully integrated into introductory biology, general biology, genetics, microbiology, cell biology, molecular genetics, and molecular biology courses. The first eight chapters have been completely revised, extensively rewritten, and updated. The new coverage extends to the completion of the draft sequence of the human genome and the enormous impact these and other sequence data are having on medicine, research, and our view of human evolution. All sections on the concepts and techniques of molecular biology have been updated to reflect the current state of laboratory research. The laboratory experiments cover basic techniques of gene isolation and analysis, honed by over 10 years of classroom use to be thoroughly reliable, even in the hands of teachers and students with no prior experience. Extensive prelab notes at the beginning of each experiment explain how to schedule and prepare, while flow charts and icons make the protocols easy to follow. As in the first edition of this book, the laboratory course is completely supported by quality-assured products from the Carolina Biological Supply Company, from bulk reagents, to useable reagent systems, to single-use kits, thus satisfying a broad range of teaching applications.

**Fertility and Chromosome Pairing** - Christopher Bob Gillies  
2020-07-24

This book discusses the nature of meiotic chromosome pairing effects which may play a role in the determination of fertility. In particular, data and illustrations from the application of recently developed electron microscopic spreading techniques will allow researchers in related fields to come to grips with the recent advances in the cytogenetics of meiotic chromosome pairing behavior. Topics dealt with include meiotic and synaptonemal complex behavior in humans and mice with a variety of chromosomal and genetic abnormalities, sex chromosome pairing in mammals and birds, the significance for fertility or pairing in mammals and birds, the significance for fertility of XY pairing and crossing over, the effects of hybridity on pairing and fertility in plants, and the genetic control of synaptonemal complex formation and crossing over in polyploids. This is a timely reference book for graduate level medical and veterinary students, and scientists in the field of genetics and cell biology.

**Cellulase** - Adam E. Golan 2011

Cellulase refers to a class of enzymes produced chiefly by fungi, bacteria, and protozoans that catalyse the cellulolysis (or hydrolysis) of cellulose. The enormous potential that cellulases have in biotechnology is the driving force for continuous basic and applied research on these biocatalysts from fungi and bacteria. Cellulases are found in many fields, such as animal feeding, brewery and wine, food, textile and laundry, pulp and paper products. The growing interest toward the conversion of lignocellulosic biomass into fermentable sugars has generated an additional request for cellulases and their related enzymes. This book presents research in the study of cellulase, including biotechnological applications of microbial cellulases; using agro-industrial by-products as raw material for cellulase production; and the enzyme saccharification of cereal crop residues using dilute alkali pre-treatment.

Cellular and Molecular Basis of Regeneration - Patrizia Ferretti

1998-05-29

Provides an extensive overview of the fundamental issues of regeneration, and surveys selected models throughout phylogenesis. Eighteen contributions integrate information obtained from anatomical and experimental embryology studies with that derived from cellular and molecular approaches, and genetics. The emphasis throughout is on how information accumulating from each of the models discussed is shedding light both on the mechanisms underlying regeneration, and on whether and how this could be translated into clinical practice. Annotation copyrighted by Book News, Inc., Portland, OR

**A Grammar of Yoruba** - Ayo Bamgbose 2000

A descriptive grammar of Yoruba, a major West African language spoken by over twelve million people, first published in 1966.

**HIV-1 Genetic Diversity** - Kok Keng Tee 2021-06-24

*Ferroelectric Ceramics* - Setter 2012-12-06

One of the fascinating aspects of the field of ferroelectric ceramics is its interdisciplinary nature. This aspect is also a source of difficulty for the people working in the field. In a successful team of ferroelectricians the physics theoretician must understand the sintering technologist, the electrical engineer has to communicate with the crystallographer, the organic chemist will interact with the microelectronics engineer, the electron microscopist should collaborate with the systems engineer. It was the purpose of the summer school on ferroelectric ceramics that took place at the Centro Stefano Franscini (ETHZ), Monte Verità, Ascona, Switzerland, in September 1991 to help to build bridges between people from the different disciplines and to draw for them, in the form of tutorial lectures, some of the different facets of ferroelectrics. The book is a written version of this summer school. It contains the following subjects: ferroelectric materials, physics of ferroelectrics, thin films, processing of ferroelectrics and their applications. It represents a cross section of topics of current interest. Materials are presented (L. E. Cross) from the point of view of the user, i. e. the tailoring of materials for specific applications. Two reviews address the important topic of ferroelectric domains and domain walls (I. Fousek and H. Schmid). In the part devoted to theory, three subjects of current interest are presented: phase transition in thin films (D. R. Tilley), weak ferroelectrics (A. K. Tagantsev) and dielectric losses (A. K. Tagantsev).

*Genes Involved in Plant Defense* - Thomas Boller 2012-12-06

Many fungi and bacteria that associate with plants are potentially harmful and can cause disease, while others enter into mutually beneficial symbioses. Co-evolution of plants with pathogenic and symbiotic microbes has led to refined mechanisms of reciprocal recognition, defense and counter defense. Genes in both partners determine and regulate these mechanisms. A detailed understanding of these genes provides basic biological insights as well as a starting point for developing novel methods of crop protection against pathogens. This volume deals with defense-related genes of plants and their regulation as well as with the genes of microbes involved in their interaction with plants. Our discussion begins at the level of populations and addresses the complex interaction of plant and microbial genes in multigenic disease resistance and its significance for crop protection as compared to monogenic resistance (Chap. 1). Although monogenic disease resistance may have its problems in the practice of crop protection, it is appealing to the experimentalist: in the so-called gene-for-gene systems, single genes in the plant and in the pathogen specify the compatibility or incompatibility of an interaction providing an ideal experimental system for studying events at the molecular level (Chaps. 2 and 4). Good progress has been made in identifying viral, bacterial, and fungal genes important in virulence and host range (Chaps. 3-6). An important aspect of plant-microbe interactions is the exchange of chemical signals. Microbes can respond to chemical signals of plant origin.

Teaching Science in Elementary and Middle School - Joseph S. Krajcik  
2014-01-23

Teaching Science in Elementary and Middle School offers in-depth information about the fundamental features of project-based science and strategies for implementing the approach. In project-based science classrooms students investigate, use technology, develop artifacts, collaborate, and make products to show what they have learned. Paralleling what scientists do, project-based science represents the essence of inquiry and the nature of science. Because project-based science is a method aligned with what is known about how to help all children learn science, it not only helps students learn science more thoroughly and deeply, it also helps them experience the joy of doing science. Project-based science embodies the principles in A Framework

for K-12 Science Education and the Next Generation Science Standards. Blending principles of learning and motivation with practical teaching ideas, this text shows how project-based learning is related to ideas in the Framework and provides concrete strategies for meeting its goals. Features include long-term, interdisciplinary, student-centered lessons; scenarios; learning activities, and "Connecting to Framework for K-12 Science Education" textboxes. More concise than previous editions, the Fourth Edition offers a wealth of supplementary material on a new Companion Website, including many videos showing a teacher and class in a project environment.

POGIL Activities for AP Biology - 2012-10

Laboratory DNA Science - Mark V. Bloom 1996

This one-of-a-kind manual offers twenty-three foolproof labs designed to make molecular biology accessible and interesting to beginning biology students. Covering the basic techniques of gene manipulation and analysis, these "tried and true" experiments were tested and re-tested by the experienced author team to ensure absolute accuracy and ease of use.

**Canadian Journal of Physiology and Pharmacology** - 1994

Chemical Abstracts - 1922

**Setting the Standard for Project Based Learning** - John Larmer  
2015-05-26

Project based learning (PBL) is gaining renewed attention with the current focus on college and career readiness and the performance-based emphases of Common Core State Standards, but only high-quality versions can deliver the beneficial outcomes that schools want for their students. It's not enough to just "do projects." Today's projects need to be rigorous, engaging, and in-depth, and they need to have student voice and choice built in. Such projects require careful planning and pedagogical skill. The authors—leaders at the respected Buck Institute for Education—take readers through the step-by-step process of how to create, implement, and assess PBL using a classroom-tested framework. Also included are chapters for school leaders on implementing PBL systemwide and the use of PBL in informal settings. Examples from all grade levels and content areas provide evidence of the powerful effects that PBL can have, including \* increased student motivation and preparation for college, careers, and citizenship; \* better results on high-stakes tests; \* a more satisfying teaching experience; and \* new ways for educators to communicate with parents, communities, and the wider world. By successfully implementing PBL, teachers can not only help students meet standards but also greatly improve their instruction and make school a more meaningful place for learning. Both practical and inspirational, this book is an essential guide to creating classrooms and schools where students—and teachers—excel.