

## **BMOL20070: Biomolecular Laboratory Skills 2**

### **Practical 2**

#### **STAINING AND MICROSCOPY OF BACTERIAL CULTURES**

##### **Objective of the practical**

1. Learn how to use a simple compound microscope
2. Learn how to prepare a methylene blue stain, Gram stain, and Acid fast stain

##### **1.1 THE MICROSCOPE**

High magnification is required to see and examine microorganisms. The compound light microscope is used for routine microbiological work. Other types of microscopes include; phase-contrast, dark-field, fluorescent and electron microscopes. The light microscopes provided consist of the following components:

1. The body - on which everything is supported.
2. Body tube - contains ocular and objective lenses.
3. Ocular or eyepiece lens (10X or 10 times magnification)
4. Objective lens - low power 10X;  
high power 40X;  
oil immersion 100X.
5. Clip in light.
6. Sub-stage condenser with diaphragm. This controls the focus of the light on the object (condenser) and also the diameter of the circle of light leaving the condenser (diaphragm).

The presence of both ocular and objective lens systems constitutes a compound microscope. The total magnification power is the product of the two lens systems, i.e. with an eyepiece of 10X and an objective of 40X, the total magnification is 400X. In practice, the highest magnification obtainable with a compound light microscope is about 1,000X. Increasing magnification above this figure is of no advantage if the resolving power is not also increased. Resolving power is defined as the capacity to distinguish two neighbouring points as separate entities.

# Biomolecular Lab Manual

**Chandrabhan Verma, Dakeshwar  
Kumar Verma**



## **Biomolecular Lab Manual:**

*Biological Investigations Lab Manual* Warren D. Dolphin, David Vleck, 2014-03-11 Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology encouraged them to think for themselves An instructor s manual provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams **Biological**

**Investigations Lab Manual** Warren Dolphin, 2007-01-16 This independent lab manual can be used for a one or two semester majors level general biology lab and can be used with any majors level general biology textbook The labs 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 Single-molecule Techniques Paul R. Selvin, Taekjip Ha, 2008 Geared towards research scientists in structural and molecular biology biochemistry and biophysics this manual will be useful to all who are interested in observing manipulating and elucidating the molecular mechanisms and discrete properties of macromolecules **Introductory Experiments on Biomolecules and their Interactions** Robert K.

DeLong, Qiongqiong Zhou, 2015-03-06 Introductory Experiments on Biomolecules and their Interactions provides a novel approach to teaching biomolecules in the lab While featuring the requisite fundamentals it also captures the author s experience in industry thus providing unique up to date experiments which take the learning experience one step further The text parallels lectures using a standard biochemistry undergraduate text Unlike most current lab manuals available in the market which simply emphasize an introduction of techniques this lab manual provides students with opportunities to demonstrate and prove the knowledge and theories they learn from class Features quantitative analysis of RNA degradation by RNase Contains problem sets calculations and references for each lab fully immersing students in the learning process Includes instruction on how to maintain a lab notebook and write a formal lab report Provides hands on engagement with the four major types of biomolecules and real life and better applied examples of molecular interactions **Biological**

**Investigations Lab Manual** Warren D. Dolphin, 2007-02 This independent lab manual can be used for a one or two semester majors level general biology lab and can be used with any majors level general biology textbook The labs 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 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

**Laboratory Investigations in Molecular Biology** Steven A. Williams, Barton Elliott Slatko, John R. McCarrey, 2007 Laboratory Investigations in Molecular Biology presents well tested protocols in molecular biology that are commonly used in currently active research labs It is an ideal laboratory manual for college level courses in molecular biology Because of the modular organization of the manual laboratory courses can be assembled that would be ideal for science professionals graduate students undergraduate students and even advanced high school students in AP courses The manual is also intended to be useful as a laboratory bench reference The experiments are designed to guide students through realistic research projects and to provide students with instruction in methods and approaches that can be immediately translated into research projects conducted in modern research laboratories Although these experiments have been conducted and optimized over 20 years of teaching the New England Biolabs Molecular Biology Summer Workshops they are real research projects not canned experiments Based on extensive teaching experience using these protocols the authors have found that conducting these experiments as described in these protocols serves to effectively instruct students and science professions in the basic methods of molecular biology An additional unique feature is that the protocols described in the manual are accompanied by available reagent kits that provide quality tested pre packaged reagents to ensure the successful application of these protocols in a laboratory course setting

Nonradioactive Analysis of Biomolecules Christoph Kessler, 2000-03-11 New techniques and updated protocols for the detection and analysis of biomolecules proteins glycoproteins and nucleic acids The second edition of this successful laboratory manual describes in detail the highly sensitive systems which are widely used in molecular biological and biomedical laboratories such as colorimetric luminescence fluorescence measuring using antibody antigen binding or hybridisation as well as PCR amplification The clearly structured step by step protocols with practical hints and a troubleshooting guide are complemented by chapters on the theoretical background and the application of the techniques enabling scientists to plan design and conduct the appropriate procedures

**Handbook of Biomolecules** Chandrabhan Verma, Dakeshwar Kumar Verma, 2023-05-23 Handbook of Biomolecules Fundamentals Properties and Applications is a comprehensive resource covering new developments in biomolecules and biomaterials and their industrial applications in the fields of bioengineering biomedical engineering biotechnology biochemistry and their detection methods using biosensors This book covers the fundamentals of biomolecules their roll in living organism structure sources important characteristics and the industrial applications of these biomaterials Sections explore amino acids carbohydrates nucleic acids proteins lipids metabolites and natural products then go on to discuss purification techniques and detection methods Applications in biomolecular engineering biochemistry and biomedical engineering among others are discussed before concluding with coverage of biomolecules as anticorrosion materials Provides the chronological advancement of biomolecules their

biochemical reaction and many modern industrial applications in engineering and science Serves as a valuable source for researchers interested in the fundamentals basics and modern applications of biomolecules Covers both synthetic and natural biomolecule synthesis and purification processes and their modern applications Bridges the gap between the fundamental science of biomolecular chemistry and the relevant technology and industrial applications      **Nonradioactive Analysis of Biomolecules** Christoph Kessler,2012-12-06 New techniques and updated protocols for the detection and analysis of biomolecules proteins glycoproteins and nucleic acids are presented in the second edition of this successful laboratory manual Highly sensitive systems which are widely used in molecular biological and biomedical laboratories such as colorimetric luminescence fluorescence measuring using antibody antigen binding or hybridisation as well as PCR amplification are described in detail The clearly structured step by step protocols with practical hints and a troubleshooting guide are complemented by chapters on the theoretical background and the application of the techniques Thus the manual will enable scientists to plan design and conduct the appropriate procedures which fulfill their particular requirements

**Purification and Characterization of Secondary Metabolites** Thomas E. Crowley,2019-08-10 Purification and Characterization of Secondary Metabolites A Laboratory Manual for Analytical and Structural Biochemistry provides students with working knowledge of the fundamental and advanced techniques of experimental biochemistry Sections provide an overview of the microbiological and biochemical methods typically used for the purification of metabolites and discuss the biological significance of secondary metabolites secreted by three diverse species of bacteria Additionally this lab manual covers the theory and practice of the most commonly used techniques of analytical biochemistry UV vis and IR spectrophotometry high performance liquid chromatography mass spectrometry X ray crystallography and nuclear magnetic resonance and how to evaluate and effectively use scientific data Instructors will find this book useful because of the modular nature of the lab exercises included Written in a logical easy to understand manner this book is an indispensable resource for both students and instructors Offers project lab formats for students that closely simulate original research projects Provides instructional guidance for students to design their own experiments Presents advanced analytical techniques Includes access to a website with additional resources for instructors      *Nonradioactive Analysis of Biomolecules* Christoph

Kessler,2000-03-11      Colloidal Biomolecules, Biomaterials, and Biomedical Applications Abdelhamid Elaissari,2003-10-21 Colloidal Biomolecules Biomaterials and Biomedical Applications is an authoritative presentation of established and recent techniques promising to revolutionize the areas of biomedical diagnostics therapeutics pharmaceuticals and drug delivery This exceptional book details an original homogeneous assay for biomolecule detection and capture through duplex colloid particles as well as new methods for utilizing peptides in particle agglutination Featuring contributions from over 30 prominent researchers it investigates physical studies of the agglutination of sensitive latexes and indicates benefits to drug delivery through supercritical fluid process production of polymer particles      Isotope Labeling of Biomolecules - Labeling

Methods ,2015-11-26 Isotope Labeling of Biomolecules Labeling Methods the latest volume of the Methods in Enzymology series contains comprehensive information on stable isotope labeling methods and applications for biomolecules Contains contributions from leading authorities in the field of isotope labeling of biomolecules Informs and updates on the latest developments in the field Provides comprehensive information on stable isotope labeling methods and applications for biomolecules      Molecular Biology Techniques Heather B. Miller,D. Scott Witherow,Sue Carson,2011-10-18 This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology or gene cloning and expression The techniques used in basic research and biotechnology laboratories are covered in detail Students gain hands on experience from start to finish in subcloning a gene into an expression vector through purification of the recombinant protein The third edition has been completely re written with new laboratory exercises and all new illustrations and text designed for a typical 15 week semester rather than a 4 week intensive course The project approach to experiments was maintained students still follow a cloning project through to completion culminating in the purification of recombinant protein It takes advantage of the enhanced green fluorescent protein students can actually visualize positive clones following IPTG induction Cover basic concepts and techniques used in molecular biology research labs Student tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab Project approach to experiments gives students an overview of the entire process Prep list appendix contains necessary recipes and catalog numbers providing staff with detailed instructions      **Cell and Molecular Biology Lab Manual** David A. Thompson,2009-07-12 cell and molecular biology laboratory manual 2009

Basic Techniques in Molecular Biology Stefan Surzycki,2012-12-06 This laboratory manual gives a thorough introduction to basic techniques It is the result of practical experience with each protocol having been used extensively in undergraduate courses or tested in the authors laboratory In addition to detailed protocols and practical notes each technique includes an overview of its general importance the time and expense involved in its application and a description of the theoretical mechanisms of each step This enables users to design their own modifications or to adapt the method to different systems Surzycki has been holding undergraduate courses and workshops for many years during which time he has extensively modified and refined the techniques described here      **Cell and Molecular Biology Lab Manual** David

Thompson,2011-06-14 A laboratory manual for an undergraduate level cell and molecular biology course      *Biochemistry in the Lab* Benjamin F. Lasseter,2019-09-30 Most lab manuals assume a high level of knowledge among biochemistry students as well as a large amount of experience combining knowledge from separate scientific disciplines Biochemistry in the Lab A Manual for Undergraduates expects little more than basic chemistry It explains procedures clearly as well as giving a clear explanation of the theoretical reason for those steps Key Features Presents a comprehensive approach to modern biochemistry laboratory teaching together with a complete experimental experience Includes chemical biology as its

foundation teaching readers experimental methods specific to the field Provides instructor experiments that are easy to prepare and execute at comparatively low cost Supersedes existing older texts with information that is adjusted to modern experimental biochemistry Is written by an expert in the field This textbook presents a foundational approach to modern biochemistry laboratory teaching together with a complete experimental experience from protein purification and characterization to advanced analytical techniques It has modules to help instructors present the techniques used in a time critical manner as well as several modules to study protein chemistry including gel techniques enzymology crystal growth unfolding studies and fluorescence It proceeds from the simplest and most important techniques to the most difficult and specialized ones It offers instructors experiments that are easy to prepare and execute at comparatively low cost **Biology**  
**Lab Manual** Keith Cunningham, 2012-05-05

## Whispering the Techniques of Language: An Psychological Journey through **Biomolecular Lab Manual**

In a digitally-driven earth wherever displays reign supreme and quick connection drowns out the subtleties of language, the profound strategies and psychological nuances hidden within words often get unheard. However, set within the pages of **Biomolecular Lab Manual** a captivating literary prize pulsating with organic emotions, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, that charming opus encourages viewers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the very material of each and every word. Within the emotional depths of the emotional review, we can embark upon a sincere exploration of the book is core themes, dissect their interesting publishing design, and fail to the powerful resonance it evokes strong within the recesses of readers hearts.

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