

# **BIOM 3500: Molecular Cell Biology**

## **Course Outline, Fall 2022**

### **Instructor:**

**Dr. Andrew Swan**

Contact:

[aswan@uwindSOR.ca](mailto:aswan@uwindSOR.ca)

Office Hours:

Wednesdays 11:30am to 12:30pm, and Fridays 10:00am to 11:00am in my office (Essex Hall 275-D). You may also email to ask questions or to schedule a different time to meet.

### **GA grader:**

**Paria Kahn mouei**

[kahn mouei@uwindSOR.ca](mailto:kahn mouei@uwindSOR.ca)

### **Lectures**

Lectures are held in-person, Mondays and Wednesdays from 10:00am to 11:20am, room **3123 Erie Hall**.

### **Blackboard Site**

All class-related announcements will be posted on the Blackboard site. Lecture powerpoints will be posted on the Blackboard site.

### **Course Description**

In this course we will examine, at the molecular level, the basic working of a cell. We deal with several aspects of eukaryotic cell biology including DNA replication, DNA repair, control of gene expression, cell growth, cell division, and apoptosis. In addition to exploring the current state of the field, we will highlight some of the critical experiments in diverse areas of molecular biology, genetics, biochemistry and cell imaging that have contributed to our current understanding.

### **Course Objectives**

1. Acquire a general understanding of key concepts in molecular and cell biology, and a deeper understanding of a select number of topics.
2. Develop an appreciation of the scientific basis for our current understanding of cell biology. This includes learning the techniques and developing an understanding of how experiments are designed and interpreted.

### **Textbook**

The textbook for this course is Molecular Biology of the Cell, Alberts et al, 6<sup>th</sup> edition. There is a 5<sup>th</sup> edition of this textbook that is very similar and also acceptable. The textbook is recommended but not required. In addition to the textbook, material will be taken from original papers and review articles. Students will only be responsible for material that is covered in class.

# Outline Of Molecular Biology

**Herbert Meislich, Howard  
Nechamkin, Jacob Sharefkin, George J.  
Hademenos**

## **Outline Of Molecular Biology:**

Molecular Biology Text and Lecture Outline Robert Frankis,1999-08-01      *Outline Of Molecular Biology* W.

Stansfield, Maime S Colome,1996-09-01 Finally a book that covers everything you need to know to master any molecular biology course without overwhelming you with unnecessary information Most textbooks on molecular and cell biology are massive tomes that bombard you with a lot of confusing extraneous information This effective study aid succeeds where those books fail covering only what you need to know and providing essential information and techniques that will improve your comprehension and help you perform better in the classroom Use it in conjunction with your textbook or to study on your own and watch your grades climb Each chapter contains logically organized easy to digest blocks of information that teach you important principles and prepare you for advanced studies The question and answer format helps you learn the material quickly Review questions at the end of each chapter let you test your retention Chapters build upon one another moving from basic to more advanced subjects and concluding with an in depth examination of the origin and evolution of life Other chapters cover Cells their Structure Metabolism and Reproduction Biomacromolecules Chromosomes their Structure Replication and Recombination Mutations Genetics of Bacteria and their Viruses Genetic Engineering Recombinant DNA Technology Eukaryotic Cells and their Viruses Cellular Communication Development in Multicellular Organisms and more

Molecular Biology Lecture Outline Robert C. Frankis, Jr.,1999-08-01      *Schaum's Outline of Biochemistry, Third Edition*

Philip W. Kuchel, Simon Easterbrook-Smith, Vanessa Gysbers, J. Mitchell Guss, Dale P. Hancock, Jill M. Johnston, Alan Jones, Jacqui M. Matthews,2009-08-14 Tough Test Questions Missed Lectures Not Enough Time Fortunately for you there s Schaum s More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you 830 fully solved problems with complete solutions Clear concise explanations of all course concepts Coverage of biochemical signaling genetic engineering the human genome project and new recombinant DNA techniques and sequencing b Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved

**Schaum's Easy Outline Molecular and Cell Biology** William Stansfield,Raul Cano,jaime Colome,2003-03-22 Boiled down essentials of the top selling Schaum s Outline series for the student with limited time What could be better than the bestselling Schaum s Outline series For students looking for a quick nuts and bolts overview it would have to be Schaum s Easy Outline series Every book in this series is a pared down simplified and tightly focused version of its bigger predecessor With an emphasis on clarity and brevity each new title features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form Graphic elements such as sidebars reader alert icons

and boxed highlights feature selected points from the text illuminate keys to learning and give students quick pointers to the essentials **Schaum's Easy Outline Molecular and Cell Biology, Revised Edition** Jaime S. Colome,William Stansfield,Raul J. Cano,2011-09-02 If you are looking for a quick nuts and bolts overview turn to Schaum s Easy Outlines Schaum s Easy Outline Molecular and Cell Biology is a pared down simplified and tightly focused review of the topic With an emphasis on clarity and brevity it features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form Graphic elements such as sidebars reader alert icons and boxed highlights stress selected points from the text illuminate keys to learning and give you quick pointers to the essentials Expert tips for mastering molecular and cell biology Last minute essentials to pass the course Supports the major textbooks for molecular and cell biology courses Appropriate for the following courses Molecular and Cell Biology Cell Biology Cytology Molecular Biology Molecular Genetics Genetics Microbial Genetics Biotechnology Molecular Evolution Evolution Easy to follow review of molecular and cell biology Supports all the major textbooks for molecular and cell biology courses

**Software Patterns, Knowledge Maps, and Domain Analysis** Mohamed E. Fayad,Huascar A. Sanchez,Srikanth G.K. Hegde,Anshu Basia,Ashka Vakil,2014-12-04 Software design patterns are known to play a vital role in enhancing the quality of software systems while reducing development time and cost However the use of these design patterns has also been known to introduce problems that can significantly reduce the stability robustness and reusability of software This book introduces a new process for 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 **Biomedical Science Practice** Nessar Ahmed,Hedley Glencross,Qiuyu Wang,2016 Biomedical scientists are the foundation of modern healthcare from cancer screening to diagnosing HIV from blood transfusion for surgery to food poisoning and infection control Without biomedical scientists the diagnosis of disease the evaluation of the effectiveness of treatment and research into the causes and cures of disease would not be possible The Fundamentals of Biomedical Science series has been written to reflect the challenges of practicing biomedical science today It draws together essential basic science with insights into laboratory practice to show how an understanding of the biology of disease is coupled to the analytical approaches that lead to diagnosis Assuming only a minimum of prior knowledge the series reviews the full range of disciplines to which a Biomedical Scientist may be exposed from microbiology to cytopathology to transfusion science A core text in the Fundamentals of Biomedical Science series Biomedical Science

Practice gives a comprehensive overview of the key laboratory techniques and professional skills that students need to master. The text is supported throughout with engaging clinical case studies written to emphasize the link between theory and practice, providing a strong foundation for beginning biomedical science students.

*Consilience, Truth and the Mind of God* Richard J. Di Rocco, 2018-12-17 This book argues that God can be found within the edifice of the scientific understanding of physics, cosmology, biology, and philosophy. It is a rewarding read that asks the Big Questions which humans have pondered since the dawn of the modern human mind, including: Why and how does the universe exist? From where do the laws of physics come? How did life and mind arise from inanimate matter on Earth? Science and religion have a common interest in the answers to such questions, yet many scientists and believers have been at odds for centuries. The author and contributors present a program for moving beyond the vastly different perspectives of reality offered by science and religion. Historical proofs for the existence of God are considered in light of the possibility that the universe may be only one in an eternal multiverse that contains an infinite number of other universes. Readers will find a modification of St Augustine's Argument from Truth for the existence of the necessary self-sufficient being commonly referred to as God. This book is suited to all with an interest in the crossing points of science and religion, providing much food for thought and reflection. If in the end you cannot accede to philosophy's proofs or theism's invitation to faith, perhaps you will nevertheless say yes to the amazing universe in which we live.

**Kyoto University Bulletin** Kyōto Daigaku, 2002

**Basics of Bioinformatics** Rui Jiang, Xuegong Zhang, Michael Q. Zhang, 2013-11-26 This book outlines 11 courses and 15 research topics in bioinformatics based on curriculums and talks in a graduate summer school on bioinformatics that was held in Tsinghua University. The courses include: Basics for Bioinformatics, Basic Statistics for Bioinformatics, Topics in Computational Genomics, Statistical Methods in Bioinformatics, Algorithms in Computational Biology, Multivariate Statistical Methods in Bioinformatics, Research Association Analysis for Human Diseases, Methods and Examples, Data Mining and Knowledge Discovery, Methods with Case Examples, Applied Bioinformatics Tools, Foundations for the Study of Structure and Function of Proteins, Computational Systems Biology, Approaches for Deciphering Traditional Chinese Medicine, and Advanced Topics in Bioinformatics and Computational Biology. This book can serve as not only a primer for beginners in bioinformatics but also a highly summarized yet systematic reference book for researchers in this field. Rui Jiang and Xuegong Zhang are both professors at the Department of Automation, Tsinghua University, China. Professor Michael Q. Zhang works at the Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA.

**Atlas of the History of Modern Science 1500-2020** Thomas H. Brobjer, 2025-02-27 This Atlas of the History of Modern Science functions as a textbook to help the student by means of diagrams and flowcharts to better understand both science and the history of science. It thus also aids the reader to better grasp the modern worldview. Students can at a glance see the grand picture and orient him or herself among different traditions and thinkers and better organize and structure information about the history of science and the scientific

developments This atlas is an invaluable textbook to every student of science of the history of science as well as for others seeking to understand our modern Weltanschauung and how we have arrived at it

**Structural Biology Using Electrons and X-rays** Michael F Moody, 2011-03-03 Structural Biology Using Electrons and X Rays discusses the diffraction and image based methods used for the determination of complex biological macromolecules The book focuses on the Fourier transform theory which is a mathematical function that is computed to transform signals between time and frequency domain Composed of five parts the book examines the development of nuclear magnetic resonance NMR which allows the calculation of the images of a certain protein Parts 1 to 4 provide the basic information and the applications of Fourier transforms as well as the different methods used for image processing using X ray crystallography and the analysis of electron micrographs Part 5 focuses entirely on the mathematical aspect of Fourier transforms In addition the book examines detailed structural analyses of a specimen s symmetry i e crystals helices polyhedral viruses and asymmetrical particles This book is intended for the biologist or biochemist who is interested in different methods and techniques for calculating the images of proteins using nuclear magnetic resonance NMR It is also suitable for readers without a background in physical chemistry or mathematics Emphasis on common principles underlying all diffraction based methods Thorough grounding in theory requires understanding of only simple algebra Visual representations and explanations of challenging content Mathematical detail offered in short course form to parallel the text

**USMLE ... Information on Computer-based Step 1 and Step 2**, 1998 The CD ROM contains instructions for both step 1 and step 2 of the United States Medical Licensing Examination Information is separated into two categories 1 for students or graduates of an LCME or AOA accredited medical school in the U S or Canada

**Volume I**, 2000-10-05 The two Essential Molecular Biology books in the Practical Approach Series are designed for the absolute beginner at gene cloning whether they be at the start of their career or an experienced researcher in another field As with the first editions the objective of both volumes is to combine solid practical information with sufficient background material to ensure that the novice can understand how a technique works what it achieves and how to make modifications to suit personal requirements Volume 1 concentrates on the procedures for DNA and RNA manipulation purification electrophoresis and the construction and cloning of recombinant molecules It also includes a general introduction to molecular biology in the laboratory and a survey of cloning vectors for Escherichia Coli

**A Guide to Virology for Engineers and Applied Scientists** Megan M. Reynolds, Louis Theodore, 2023-01-25 A Guide to Virology for Engineers and Applied Scientists A hands on guide covering the fundamentals of virology written from an engineering perspective In A Guide to Virology for Engineers and Applied Scientists Epidemiology Emergency Management and Optimization a team of distinguished researchers delivers a robust and accessible treatment of virology from an engineering perspective The book synthesizes a great deal of general information on viruses including coronaviruses in a single volume It provides critical context that engineers and applied scientists can use to evaluate and manage viruses encountered in the

environment The fundamental principles of virology are explored with calculation details for health and hazard risk assessments Each chapter combines numerous illustrative examples and sample problems ideal for advanced courses in environmental health and safety pharmaceuticals and environmental science and engineering Readers will also find A detailed introduction to health and hazard risk analysis and assessment that is complete with technical information and calculation details Comprehensive illustrative examples and practice problems for use by educators and professionals in training Practical discussions of virology by authors with combined experience in pharmaceuticals and environmental health and safety Thorough treatments of virology from the perspective of a professional engineer A definitive source for those working in related fields who wish to deepen their overall understanding of viruses Perfect for chemical civil mechanical biochemical engineers and applied scientists A Guide to Virology for Engineers and Applied Scientists Epidemiology Emergency Management and Optimization will also earn a place in the libraries of industrial hygiene professionals and instructors students and practitioners in environmental health pharmaceuticals public health and epidemiology

**Schaum's Outline of Organic Chemistry, Fourth Edition** Herbert Meislich, Howard Nechamkin, Jacob Sharefkin, George J. Hademenos, 2009-08-28 Tough Test Questions Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved Modern Parasitology F. E. G. Cox, 2009-07-17 This is a thorough revision and update of the highly successful first edition which achieved sales in excess of 4 500 The text serves as a comprehensive introduction to parasitology for both undergraduate and beginning graduate students In this edition particular emphasis is placed on parasites of human and veterinary importance The first three chapters in the text are concerned with how parasites work their biochemistry molecular and cell biology and physiology The remaining chapters cover ecology and epidemiology immunology and chemotherapy with the final chapter covering integrated control This new edition contains new material on cell and molecular biology vectors and control which is in contrast to the general biological approach of the first edition The second edition will succeed the first as the major text on parasitology for students in biology zoology microbiology medicine veterinary medicine tropical medicine and public health

**Carranza's Clinical Periodontology** Michael G. Newman, Henry Takei, Perry R. Klokkevold, Fermin A. Carranza, 2011-02-14 The most widely used periodontics text Carranza s Clinical Periodontology provides both print and

online access to basic procedures as well as the latest in advanced procedures and techniques in reconstructive esthetic and implant therapy Not only does this book show how to do periodontal procedures it describes how to best manage the outcomes and explains the evidence supporting each treatment Written by leading experts Michael Newman Henry Takei Perry Klokkevold and Fermin Carranza along with a pool of international contributors this edition also discusses the close connection between oral health and systemic disease A new Expert Consult website includes the entire fully searchable contents of the book and takes learning to a whole new level with content updates videos a drug database and much more Comprehensive coverage describes all aspects of periodontics in a single volume including periodontal pathology the etiology of periodontal diseases the relationship between periodontal disease and systemic health treatment of periodontal diseases oral implantology supportive treatment and ethics legal and practical matters Problem solving scenario based learning opportunities use well documented case reports to help you learn both basic and advanced procedures and techniques Speed to competence is enhanced with access to print online and mobile platforms A unique approach combines evidence based decision making science transfer and classification nomenclature throughout every chapter A one of a kind Genetic Factors and Periodontal Disease chapter examines the role of genetic factors in gum disease In depth information serves as an excellent foundation in preparing for the National Board Dental Exam Expert Consult website offers fast reliable online access to advanced material videos an image collection a drug database interactive flash cards multiple choice test questions interactive references and Pathology Consult plus the entire contents of the book are fully searchable Find core information in the book additional advanced information is provided online Consult your book from any computer anywhere in the world for the entire life of this edition Keep current with regular updates of the latest periodontal news and information Follow links from biographical citations to the corresponding MEDLINE abstracts See a comprehensive library of pathology photos Coverage of the latest advances includes the emerging link between periodontal disease and systemic health Full color illustrations depict the newest developments in surgical technology A new Multidisciplinary Approach to Dental and Periodontal Problems chapter discusses the importance of collaborative care in the practice of periodontics Etiology of Periodontal Diseases Part 4 provides a more comprehensive background in periodontal anatomy physiology and pathogenesis



This book delves into Outline Of Molecular Biology. Outline Of Molecular Biology is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Outline Of Molecular Biology, encompassing both the fundamentals and more intricate discussions.

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  6. In chapter 5, the author will draw a conclusion about Outline Of Molecular Biology. The final chapter will summarize the key points that have been discussed throughout the book.
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