

BIOM 3500: Molecular Cell Biology

Course Outline, Fall 2022

Instructor:

Contact:

Office Hours:

Dr. Andrew Swan

aswan@uwindsor.ca

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 Kahnamouei**

kahnamouei@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, 6th edition. There is a 5th 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 And Cell Biology

Stansfield

Outline Of Molecular And Cell Biology:

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Cell And Molecular Biology S. C. Rastogi,2006 Cell And Molecular Biology Second Edition Gives An Extensive Coverage Of The Fundamentals Of Molecular Biology The Problems It Addresses And The Methods It Uses Molecular Biology Is Presented As An Information Science Describing Molecular Steps That Nature Uses To Replicate And Repair Dna Regulate Expression Of Genes Process And Translate The Coded Information In Mrna Modify And Target Proteins In The Cell Integrate And Regulate Metabolism Written In A Lucid Style The Book Will Serve As An Ideal Text For Undergraduate Students As Well As Scientific Workers Of Other Disciplines Who Need A Comprehensive Overview Of The Subject Features Of The Second Edition Incorporates Many New Topics And Updates Gives Independent Chapters On Dna Replication Dna Repair Transcription And Translation To Accommodate Recent Advances A New Chapter On Post Translational Modification And Protein Targeting A Chapter On Tools And Techniques Employed In Molecular Biology An Introductory Chapter On Bioinformatics Included To Emphasise That Molecular Processes Can Be Addressed Computationally Extensive Glossary

Kyoto University Bulletin Kyōto Daigaku,2002 *Cell and Molecular Biology* Eduardo D. P. De Robertis,E. M. F. De Robertis,1980 *Zytologie* *The Cell--outlines of general anatomy and physiology* Oscar Hertwig,1895

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