

PBIO 450/550: BIOTECHNOLOGY & GENETIC ENGINEERING (4 credits)
Web site: <http://www.ohio.edu/plantbio/staff/showalte/PBIO%20450%20&%20550/>

Time & Place: Tuesday & Thursday 10:10-12:00; Porter 104

Instructor: Allan Showalter

Fall 2010

Text: Molecular Biotechnology©2009 by Bernard R. Glick, Jack J. Pesternak & Cheryl L. Patten

Requirements: PBIO110 or PBIO114 or BIOS 170

Course Description:

The purpose of this course is to introduce students to basic molecular biological concepts and techniques used in the fields of biotechnology and genetic engineering. Current experimentation and progress in these fields as well as ethical considerations of this research will be discussed.

Grades will be based on the following:

1. A midterm exam on the first third of the course (100 points).
2. A midterm exam on the second third of the course (100 points).
3. A comprehensive final exam (100 points).
4. A graded, in-class presentation on a biotechnology or genetic engineering topic, preferably a controversial one, to be approved by the instructor (50 points for PBIO 450 students and 25 points for PBIO 550 students). Each student will have to prepare a one-paragraph abstract of his or her presentation and a list of relevant references (including the article titles) for distribution to the class. Graduate students enrolled in the course will additionally have to submit an 8-10 page double spaced paper (25 points) on their chosen topic following the format of a review paper in *Nature Reviews Molecular Cell Biology* (<http://www.nature.com/nrm/index.html>); being sure to include complete article titles for all references.
5. Homework (50 points). Email answers to review questions for each assigned chapter. Chapter answer sets are given equal grade weighting and are due each Monday by noon for the past week's assignments.

Thus, there are 400 points possible. Typically, 93.3% and above will earn an A, 90-93.3% an A-, 86.7-90% a B+, 83.3-86.7% a B, 80-83.3% a B-, 76.7-80% a C+, 73.3-76.7% a C, 70-73.3% a C-, 66.7-70% a D+, 63.3-66.7% a D, 60-63.3% a D-, and below 60% an F.

Exams will be based upon material covered in class lectures as well as in the assigned readings.

Office Hours:

By appointment, Porter Hall-Room 504 (phone number 593-1135 or email showalte@ohio.edu)

Academic Conduct:

The penalty for course-related academic dishonesty (i.e., cheating on exams, plagiarism, etc.) will be failure of the entire course along with a report of the incident being sent to Judiciaries.

Attendance Policy:

Attendance is highly recommended. Any absences must be well justified and explained to the instructor in advance in order to make up any of the graded material.

Biotechnology And Genetic Engineering Ohio University

Dennis J. Runser



Biotechnology And Genetic Engineering Ohio University:

Advances in Biotechnology and Genetic Engineering: Implications for the Development of New Biological Warfare Agents, 1996 **New Developments in Biotechnology: U.S. Investment in biotechnology (Summary)**, 1988 **U.S. Investment in Biotechnology** United States. Congress. Office of Technology Assessment, 1988 **Genetic Engineering and Biotechnology Related Firms Worldwide Directory**, 1988 Internet Directory Product Directory and US and Foreign Firms **Patents and the Constitution** United States. Congress. House. Committee on the Judiciary. Subcommittee on Courts, Civil Liberties, and the Administration of Justice, 1988 Ohio University, 1804-2004 Betty Hollow, 2003 Lively narrative depicting the historical academic and cultural events that shaped one of Ohio's premier universities **Abstracts in Biocommerce**, 1995 **Genetic Engineering of Animals** William Hansel, 1990 In 1989 a number of scientists representing the leading groups of genetic engineers in universities government agencies and industrial laboratories presented their most recent findings at the Second Symposium on Genetic Engineering of Animals The papers contained in this volume represent state of the art technology in the production of transgenic animals ranging from mice to cattle The emphasis is definitely on domestic animals including sheep pigs cattle and poultry but a number of papers are primarily based on recent developments in mice and rabbits and one paper concerns the production of transgenic fish *The Feeding of Nations* Mark Gibson, 2016-04-19 In the last decade the world has grown richer and produced more food than ever before Yet in that same period hunger has increased and 925 million remain underfed and malnourished Exploring this troubling paradox *The Feeding of Nations Re Defining Food Security for the 21st Century* offers a glimpse into how the simple aspiration of global food security can be achieved *AgBiotechnology News*, 1987 **Encyclopedia of Ethical, Legal, and Policy Issues in Biotechnology** Thomas H. Murray, Maxwell J. Mehlman, 2000-10-10 This set is comprehensive and technically literate and more informative on regulation and policy issues Thomas Murray is a world renowned leader in this field *The Ohio Journal of Science*, 1986 Includes book reviews and abstracts *Directory of Biotechnology Companies*, 2000 The Animal's Agenda, 2001 *The College Blue Book*, 1993 **Genetic Engineering News**, 1998 **Chemistry and Industry**, 1995 **Law & Business Directory of Intellectual Property Attorneys**, 1995 *Industrial-academic Interfacing* Dennis J. Runser, 1984 Innovations in Biology Martin Walters, 1999 Inside readers will find an introductory overview of key developments in biology since 1900 a detailed chronology of milestones in biology biographical sketches of influential scientists of the twentieth century and their roles in advancing the science annotated listings of related organizations works for further reading and Web sites and a comprehensive dictionary of more than 1 200 biological terms and concepts BOOK JACKET

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Table of Contents Biotechnology And Genetic Engineering Ohio University

1. Understanding the eBook Biotechnology And Genetic Engineering Ohio University
 - The Rise of Digital Reading Biotechnology And Genetic Engineering Ohio University
 - Advantages of eBooks Over Traditional Books
2. Identifying Biotechnology And Genetic Engineering Ohio University
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biotechnology And Genetic Engineering Ohio University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biotechnology And Genetic Engineering Ohio University
 - Personalized Recommendations
 - Biotechnology And Genetic Engineering Ohio University User Reviews and Ratings
 - Biotechnology And Genetic Engineering Ohio University and Bestseller Lists
5. Accessing Biotechnology And Genetic Engineering Ohio University Free and Paid eBooks
 - Biotechnology And Genetic Engineering Ohio University Public Domain eBooks
 - Biotechnology And Genetic Engineering Ohio University eBook Subscription Services
 - Biotechnology And Genetic Engineering Ohio University Budget-Friendly Options
6. Navigating Biotechnology And Genetic Engineering Ohio University eBook Formats
 - ePub, PDF, MOBI, and More
 - Biotechnology And Genetic Engineering Ohio University Compatibility with Devices
 - Biotechnology And Genetic Engineering Ohio University Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biotechnology And Genetic Engineering Ohio University
 - Highlighting and Note-Taking Biotechnology And Genetic Engineering Ohio University
 - Interactive Elements Biotechnology And Genetic Engineering Ohio University
8. Staying Engaged with Biotechnology And Genetic Engineering Ohio University

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biotechnology And Genetic Engineering Ohio University
9. Balancing eBooks and Physical Books Biotechnology And Genetic Engineering Ohio University
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biotechnology And Genetic Engineering Ohio University
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biotechnology And Genetic Engineering Ohio University
- Setting Reading Goals Biotechnology And Genetic Engineering Ohio University
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biotechnology And Genetic Engineering Ohio University
- Fact-Checking eBook Content of Biotechnology And Genetic Engineering Ohio University
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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