

BIMM 101**Recombinant DNA Techniques
Section C00****Spring 2010**

Dr. Aubrey Davis Office hours: Monday 12:30 PM – 1:30 PM (or find me during lab time)
York 4070A
akdavis@ucsd.edu
534-7363 (York)

Lecture: Tuesday and Thursday 8 – 9:20 AM in Center Hall 109

Labs (am): York Hall, Tuesday and Thursday 9:30 AM – 1:30 PM

<u>Section</u>	<u>Room</u>	<u>TA</u>	<u>TA email</u>
C01	4318	Brian Lew	blew@ucsd.edu
C02	4332	Moriah Eustice	meustice@ucsd.edu

Labs (pm): York Hall, Tuesday and Thursday 2:30 PM – 6:30 PM

<u>Section</u>	<u>Room</u>	<u>TA</u>	<u>TA email</u>
C03	4318	Margherita (Marghe) Paschini	paschini@salk.edu
C04	4332	Poochit (Mike) Nonejuie	pnonejui@ucsd.edu

Learning objectives:

- Learn the theory behind molecular techniques, and the applications of the methodologies in biological research
- Become proficient at basic molecular biology techniques
- Learn the importance of proper controls in designing experiments and interpreting results
- Improve lab math skills and ability to graph data correctly
- Learn to make logical conclusions from experimental data
- Become familiar with bioinformatics databses and applications
- Learn to find, read, and evaluate primary literature
- Become aware of the implications of the technology for society

Required texts:

BIMM 101 Lab Manual from University Readers
From Genes to Genomes (2nd edition) by Dale & von Schantz – also available on reserve in BML
Readings on WebCT (webct.ucsd.edu)

Materials Required – needed by second class meeting:

- 1) BIMM101 Lab Manual
- 2) Bound laboratory notebook with carbon paper (bookstore)
- 3) Pen (lab notes must be in ink)
- 4) UV blocking safety glasses (at bookstore)
- 5) Lab coat (bookstore has cheap ones)
- 6) Proper clothing

Course Website:

Many of the course materials are available only through the course website on WebCT (<http://webct6web.ucsd.edu>). All students will need to be able to access this site. Once you are enrolled in the class you will have access to the site using your ACS username and password. Be sure to check the course website frequently for announcements and updates on assignments. WebCT also contains a discussion board for questions and answers. **Please post questions on the discussion board - do not e-mail me directly.**

Grading:

Your final grade for the class will be calculated using the following criteria:

Quizzes	32%
Lab Reports & Homework Assignments	36%
Exam	30%
Lab Performance	2%

Quizzes: Starting **April 6th**, there will be a quiz on every Tuesday at the **beginning of lecture**. Quizzes will cover the lecture and lab experiments from the previous week. There will be eight quizzes collectively worth 32% of your final grade. There are no makeup quizzes.

Lab reports & Homework Assignments: You will be required to submit **one** lab report during the quarter worth 15% of your grade (Due on **April 22nd**) and three shorter homework assignments each worth 7% of your grade. Total = 36%.

Although you will be doing experiments and collecting data with a partner, you must hand in your own assignments, in your own words. **Copying someone else's lab report, be it from the same class, another class, or from another quarter, is considered cheating (see below).**

Late policy: Assignments are due at the beginning of the lab on the assigned date. For each day thereafter, you will lose 10% off the total for that assignment.

Exams: There will be a cumulative exam, worth 30% of your grade, on **June 1st**.

Notebook / Lab Performance / Attendance:**A. Lab Notebook:**

You will be expected to keep a formal laboratory notebook for all of the experimental work you do in lab. Your notebook will be checked at unannounced times during the quarter. The notebook must have carbon paper and contain everything you do in the lab, including (see back of lab manual for more details):

- i. The date, title and purpose
- ii. Any changes in protocol
- iii. All data/results
- iv. All calculations done during experiments
- v. Observations

You will need to attach carbons of relevant labs to all homework assignments and lab reports you hand in (I will indicate in assignment guidelines which lab #s to include).

B. Remember that lab attendance is required. If you miss two labs, you will be dropped from the course. If you are ill, you must leave a message with me, not your TA, and make up the lab in a way that I will determine. You must be on time for lab; the TAs explain the experiments at the beginning of lab, and also quizzes are administered then. **If you come in late and miss a quiz, you will get 0 points for that quiz, no exceptions.**

C. Lab performance: (2%) Your lab performance grade will be based on your class attendance, effort, attitude, and the success of your experiments. If you miss one lab with no excuse or are habitually late to lab, you will lose these points.

Turning in Lab Reports:

We will be using the website Turnitin.com for lab reports in addition to turning in hard copies to your TA. Lab reports must be submitted to Turnitin.com **before** you hand in your hard copy. You must submit all of your text (please do not include graphs, tables, or attachments) to Turnitin.com. You must also turn in a complete hard copy (all text, plus all tables, graphs, attachments, or anything else called for in the lab report guidelines) to your TA no later than 10 minutes after the beginning the lab session during which it is due. Lab reports not turned in at the beginning of the lab session, or not submitted to Turnitin.com will be considered one-day late. Ten percent will be deducted for each working day that the lab reports are late (hard copy and Turnitin.com). Students agree that by taking this course all required papers will be subject to review for textual similarity by Turnitin.com for the detection of plagiarism, and all submitted papers will be retained in the Turnitin.com database. The class ID for Turnitin is **3200518** and the password is “**bimm101**”.

Policy on cheating: anyone caught cheating (includes plagiarizing lab reports, cheating on a test, or changing an answer for a re-grade) will be referred to the academic integrity office.

Re-grading Exams and Lab Reports:

If you feel that an error has been made in grading, you may request a re-grade within one week of receiving the graded assignment. **All re-grade requests must be in writing.** Please do not ask your TA to look at a test or paper during lab time! The entire assignment will be re-graded and may result in a lower overall score.

BIMM 101 Integrity Policy Regarding Laboratory Reports

Student Contract:

1. I understand that if I am late for lecture on a day a quiz is given, I will not be allowed to take the quiz and will receive a 0 score for that quiz.

Name

Date

All lab reports for the class must be independently written, i.e., **your own work in your own words**. While discussion of data among lab partners is encouraged, each student on their own must complete all text, references, figures, graphs, and tables. The submission of reports by lab partners that contain shared work is forbidden, and will result in points being deducted from both reports. The exception to this is when a figure is the raw data that is supplied to each member of the group (specifically absorption spectra and gel photographs). In this case the labeling of that figure must be done independently. If you have questions about the difference between discussing your work with others and unauthorized collaboration, please ask your instructor or T.A. for clarification.

Because lab reports are to be your own work in your own words, you may not copy to any extent current or past laboratory reports that were written by other students. This is known as plagiarism, which is a direct attempt by the student to present the work of others as their own, and is no different than cheating on an exam. Directly copying material from other sources without putting it in your own words is also plagiarism, even if the source is cited as a reference. Plagiarism in lab reports is rigorously sought out and penalized. Students are required to upload an electronic version of each lab report to Turnitin.com, where the report is screened with a plagiarism checker against all reports in the Turnitin database. All incidents of plagiarism will automatically be turned in to the Academic Integrity Coordinator. Following UCSD's Policy on Integrity of Scholarship (www-senate.ucsd.edu/manual/appendices/app2.htm), students found to have committed plagiarism or other academic misconduct will receive both an administrative (decided by the Council of Deans) and academic penalty (decided by the instructor). Furthermore, all submitted reports are retained in the Turnitin database. Similarity hits by the plagiarism checker will also reveal the name of the student who provided the plagiarized material. Giving one's own lab report to other students to allow them to copy material from that report is also academic dishonesty, and will be pursued and penalized as rigorously as for the student committing the plagiarism.

2. I understand that if I plagiarize a lab report and it is detected by Turnitin.com, the matter will go to the Academic Integrity Office on campus. I also understand that if I give a lab report to a student who takes the lab in a subsequent quarter, and he or she plagiarizes my lab report, I will also be subject to disciplining by the Academic Integrity Office.

Signature_____

Date_____

Student ID_____

Print Name_____

Lab Section_____