

## BIMM 101 Recombinant DNA Techniques | Spring 2015

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Lecture: Tuesday and Thursday at 9:30-10:50 am in York 4080A

Laboratory: Tuesday and Thursday at 11:00 am - 3:00 pm in York 4318 or 4332

Office Hours: Wednesday 10:00-11:50 am in York 4124 or by appointment

### Required texts

1. BIMM 101 Lab Manual from University Readers
2. From Genes to Genomes by Dale, electronic version available on Roger
3. Other readings posted on TED

### Required materials

- Labcoat (must be to knees), UV-blocking safety glasses
- Long pants or equivalent, close-toed and closed-heel shoes
- Fine point Sharpie (dark color) for labeling
- Calculator (no cell phones allowed in the laboratory)
- i>clicker 2 (the newest version of i>clicker) registered on TED

### Calendar

Mar 31	Lab 1	May 5	Lab 11
Apr 2	Lab 2	May 7	Lab 12A and 12B
Apr 7	Lab 3	May 12	Lab 12C, Quiz 3
Apr 9	Lab 4	May 14	Lab 13 and 14B
Apr 14	Lab 5, Quiz 1	May 19	Lab 15
Apr 16	Lab 6	May 21	Lab 16
Apr 21	Lab 7	May 26	Lab 17, Quiz 4
Apr 23	Lab 8	May 28	Lab 18
Apr 28	Lab 9, Quiz 2	Jun 2	Review
Apr 30	Lab 10	Jun 4	Quiz 5-6

### Grading

There are three components of grading in this course: participation (20%), laboratory assignments and reports (40%), and quizzes (40%). The grading scheme is as follows but may be adjusted to improve everyone's grades if necessary: A+/A/A- at above 90%, B+/B/B- at 80-90%, C+/C/C- at 70-80%, D at 60-70%, and F at under 60%. This course is not graded on a curve (i.e. 20% of students getting A, B, C, and such), and the ability to do well in the course is not dependent on others doing poorly.

Participation: Active participation both in the laboratory and lectures is essential to learning in this course. There will be many participation items, including pre-lab and pre-lecture assignments, laboratory data collection, and clicker questions in lectures. Participation will be graded for thoughtful completion, and 80% participation items (rounded up to whole items) will be counted.

Laboratory assignments and reports: For the first project, short assignments (10% total) on data analysis will be submitted in groups of two. For the remaining three projects in the second half of the quarter, laboratory reports (10% each) will be written in groups of two in the format of journal articles from research journals. We will use the Saltman Quarterly as a guide.

Quizzes: Quizzes will be done individually at the beginning of lecture. They are open notes and books (but not cell phones or other communication equipment), and calculators are allowed. Quizzes are cumulative but will focus on the most recent material. There will be 4 short quizzes (25 minute) and 1 long quiz (50 minutes) that count as 2 short quizzes. Out of 6 quiz equivalents, the top 5 quiz grades (8% each) will be counted.

### **Laboratory attendance**

Attendance in laboratory is required. If you miss two labs, you will be asked to drop the course. If you are ill, you must leave a message with your instructor (not your instructional assistant) and make up the lab in a way that we will determine. You must be on time for lab, as the instructional assistants go over the experiments at the beginning of lab. Two late attendance will be counted as one absence.

### **Laboratory safety**

Safety precautions are crucial in the laboratory setting. As such, appropriate personal protective equipment (PPE), including laboratory coats that cover to the knees, UV-blocking safety glasses or googles, long pants or equivalent, and closed-toe and closed-heel shoes, are required.

### **Academic integrity (<https://students.ucsd.edu/academics/academic-integrity/index.html>)**

Integrity of scholarship is essential for an academic community. The University expects that both faculty and students will honor this principle and in so doing protect the validity of University intellectual work. For students, this means that all academic work will be done by the individual(s) to whom it is assigned, without unauthorized aid of any kind.

### **Assignments and quizzes**

No late participation items will be accepted, and no make-up quizzes will be offered, as only up to 80% of these grades are counted. No late assignments will be accepted, except in the case of a documented short-term illness or serious documented family emergency (in which case, the new deadline needs to be discussed with the instructor).

### **Clickers**

Participation in lectures will be mainly through clicker questions, and quizzes will be given as multiple-choice questions on clickers to facilitate grading. To participate in lectures and take quizzes, you must have an i>clicker 2 (the newest version of i>clicker) and have it registered on TED.

### **Inclusion and accessibility (<http://disabilities.ucsd.edu>)**

Any student with a disability is welcome to contact us early in the quarter to work out reasonable accommodations to support your success in this course. Students requesting accommodations for this course due to a disability must provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD), which is located in University Center 202 behind Center Hall. Students are required to present their AFA letters to faculty and to the OSD Liaison in the Division of Biological Sciences in advance so that accommodations may be arranged. For further information, contact the OSD at 858-534-4382 or [osd@ucsd.edu](mailto:osd@ucsd.edu).