See separate document on TritonEd for the course schedule.

Dr. Keefe Reuther
Office hours: Monday 1-2p; WF 10:30-11:30a
kdreuther@ucsd.edu
Office: HSS 1145D

Lecture: TuTh 11am-12:20pm CSB 005

Schedule of Laboratory Meetings:

<table>
<thead>
<tr>
<th>Section #</th>
<th>Day</th>
<th>Time</th>
<th>Building</th>
<th>Room</th>
<th>IA</th>
</tr>
</thead>
<tbody>
<tr>
<td>F01</td>
<td>TuTh</td>
<td>1:30p-5:20p</td>
<td>YORK</td>
<td>3306</td>
<td>Chin San</td>
</tr>
<tr>
<td>F02</td>
<td>TuTh</td>
<td>1:30p-5:20p</td>
<td>YORK</td>
<td>3406</td>
<td>Sung</td>
</tr>
</tbody>
</table>

Instructional Assistants:
Name: 
Loo, Eric  csloo@ucsd.edu
Beck, Sung  sjbeck@ucsd.edu

Learning goals:
- Collaborate with one another to learn foundation biological concepts and laboratory skills
- Apply knowledge of molecular biology concepts and molecular techniques to plan experiments, explain and troubleshoot results.
- Demonstrate proficiency at the basic molecular biology techniques used in the lab.
- Explain the importance of proper controls in designing experiments and interpreting results.
- Perform basic lab math skills, statistical analysis, and graphing.
- Draw conclusions based on evidence and reasoning.
- Use basic bioinformatics databases and applications.
- Find, read, and evaluate primary literature.

Texts:
1. BIMM 101 Lab Manual from University Readers REQUIRED
2. From Genes to Genomes by Dale (1st, 2nd, or 3rd edition) OPTIONAL
   electronic version of 3rd and 1st edition available on Roger
3. Readings on posted on TritonEd

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Required Materials – needed by second laboratory meeting:
Lab coat – must be to knees
UV blocking safety glasses (also at bookstore)
Fine point Sharpie for labeling – get a dark color
Basic calculator – you cannot use a cell phone during quizzes!
Long pants, close-toed shoes, and socks
REMEMBER: NO SKIN MAY SHOW BELOW THE BOTTOM OF YOUR LAB COAT!

Remember that lab attendance 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 IA, and make up the lab in a way that we will determine. You must be on time for lab; the IAs go over the experiments at the beginning of lab and quizzes are administered then.

CONTACT: Your IA’s and fellow students are your best resource for information and you should first attempt to answer your questions through them. Contact Dr. Reuther first only for specific issues unrelated to course content. The best way to contact him is by email: kdreuther@ucsd.edu. On all emails PLEASE put BIMM 101 in the subject line to indicate that the email pertains to this course. If you email about anything regarding your status in the course, please include your UCSD username, and PID.

iCLICKERS: Required. You must register your clicker on TritonEd during week 1. Beginning Monday, week 2, you must answer at least 75% of the questions in a single lecture to receive participation points for that lecture. You may miss two lectures during the quarter and receive full participation credit. Forgotten remotes or dead batteries or any other similar issue will not be considered excuses for missed participation. It is the students’ responsibility to make sure they have a working iClinger remote for all classes.

VIDEOCASTING:
Whenever possible, class meetings will be recorded and made available online as a resource for learning (http://podcast.ucsd.edu/). However, participation and contribution are highly encouraged, as substantial portions of class meetings will be interactive. Many important concepts and ideas that are the result of collaborative learning cannot be easily captured on video. Therefore, podcasts are provided for review and should not be used solely to substitute for active engagement in class meetings.

TECHNOLOGY:
Students are welcome to bring laptop computers, tablets, or similar technology to class meetings and discussion sections for note-taking purposes. Please see this research

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study, which shows that multi-tasking on computers in class is likely to decrease not only your own grade but also the grades of people around you who can see your screen! For this reason, we ask that you do not flip between relevant course materials and irrelevant activities on the internet. The use of cell phones, computers, or other personal devices is not permitted in the laboratory for safety reasons.


**WEBSITE:** Everything related to the class is kept on the TritonEd site (https://tritoned.ucsd.edu/webapps/login/). **Announcements** of exam room changes and many other important matters will be posted on the TritonEd site. Check the site often! **Grades** for the midterm exams will all be posted on the website.

**GRADING:**

**Participation 20%:**
- In-class activities, 5%
- iClicker participation, 5%
- Lab notebooks, 8%
- Professionalism, 2%

**Quizzes 40%:**
- 4 X 5% quizzes –biweekly
- Final exam, 20%

**Writing 40%**
- Lecture topic writing assignment, 5%
- RNAi assignment, 5%
- PCR variations mini-report, 8%
- Promoter mutants mini-report, 8%
- Gel electrophoresis mini-report, 6%
- Ligation efficiency mini-report, 8%

**EXTRA CREDIT** for 80% of class filling out CAPEs and any other course surveys = 0.5%

**Absences:** If you miss one lab with no excuse, you will lose 5% from your final grade. If you miss two labs, you will receive an F for the course.

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These guidelines will be used to assign grades:
> (90%) A (A-, A or A+)
> (80%) B (B-, B or B+)
> (70%) C (C-, C or C+)
> (60%) D

If necessary, these cutoffs will be adjusted downward, but they will not be adjusted upward for any reason. There is NO rounding of grades. The ONLY recourse to receive a higher grade is to successfully submit a regrade request on an exam.

**Regrades:** It is your responsibility to check your exam for clerical errors in grading. If a grading error has been made, you should submit a re-grade request to Dr. Reuther at the end of a lecture. Download and use the regrade form posted on TritonEd. Once filled out, you must staple it to the front of your exam. No re-grades are possible for exams written in pencil or non-permanent ink. Students who submit exams for re-grading understand that we may (1) re-grade the entire exam, and (2) compare the submitted paper to a scanned copy of the original exam.

**Laboratory safety:**
Safety precautions are crucial in the laboratory setting. Biology lab safety training and assessment ([https://biology.ucsd.edu/education/undergrad/course/ug-labs.html](https://biology.ucsd.edu/education/undergrad/course/ug-labs.html)) must be completed by the beginning of the first laboratory meeting. Students will not be allowed to participate in any laboratory section without completing this online training and assessment.

From the beginning of the first lab, appropriate laboratory attire is always required. Appropriate laboratory attire includes long pants or equivalent, long socks or equivalent, and closed-toe and closed-heel shoes. No skin should be exposed from the waist down at all times. Starting at the beginning of the second lab, personal protective equipment (PPE) is required. PPE includes laboratory coats that cover to the knees and UV-blocking safety glasses or goggles, both of which are available at the bookstore.

**Writing and Critical Expression Hub:**
[http://commons.ucsd.edu/students/writing/index.html](http://commons.ucsd.edu/students/writing/index.html)
The Writing and Critical Expression Hub provides support for undergraduates working on course papers, i.e. laboratory reports and the research proposal, as well as other independent writing projects. Writing mentors can help at any stage of the writing process, from brainstorming to final polishing. The Writing and Critical Expression Hub offers: one-on-one writing tutoring by appointment; supportive and in-depth conversations about writing, the writing process, and writing skills; help with every stage in the writing process, walk-in tutoring; and workshops on writing.

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Accessibility and inclusion:
http://disabilities.ucsd.edu | osd@ucsd.edu | 858-534-4382
Any student with a disability is welcome to contact us early in the quarter to work out reasonable accommodations to support their 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). 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.

Whenever possible, we will use universal designs that are inclusive. For example, colors used in this syllabus are distinguishable by most colorblind and non-colorblind people, and this font is designed to be dyslexic friendly. If you have feedback on how to make the class more accessible and inclusive, please get in touch!

Discrimination and harassment: The Office for the Prevention of Harassment & Discrimination (OPHD) provides assistance to students, faculty, and staff regarding reports of bias, harassment, and discrimination. OPHD is the UC San Diego Title IX office. Title IX of the Education Amendments of 1972 is the federal law that prohibits sex discrimination in educational institutions that are recipients of federal funds. Students have the right to an educational environment that is free from harassment and discrimination.

Students have options for reporting incidents of sexual violence and sexual harassment. Sexual violence includes sexual assault, dating violence, domestic violence, and stalking. Information about reporting options may be obtained at OPHD at 858-534-8298, ophd@ucsd.edu, or http://ophd.ucsd.edu. Students may receive confidential assistance at CARE at the Sexual Assault Resource Center at 858-534-5793, sarc@ucsd.edu, or http://care.ucsd.edu, or Counseling and Psychological Services (CAPS) at 858-534-3755 or http://caps.ucsd.edu.

Students may feel more comfortable discussing their particular concern with a trusted employee. This may be a student affairs staff member, a faculty member, a department chair, or other university official. These individuals have an obligation to report incidents of sexual violence and sexual harassment to OPHD. This does not necessarily mean that a formal complaint will be filed.

If you find yourself in an uncomfortable situation, ask for help. The university is committed to upholding policies regarding nondiscrimination, sexual violence, and sexual harassment.

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Academic integrity: [link](https://students.ucsd.edu/academics/academic-integrity/index.html)

Integrity of scholarship is essential for an academic learning community. In this course and at the university, we expect that both students and the instructional team 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 to whom it is assigned, without unauthorized aid of any kind. Instructors, for their part, will exercise care in planning and collaborating with students on academic work, so that academic integrity is upheld.

When people collaborate to work toward a common goal, shared values must be established so that everyone understands the acceptable ways for working together. In organizations, these are commonly called codes of conduct or ethics. In this course, we are using a statement of values⁴ in support of codes of ethics, like the Policy on Integrity of Scholarship, to state explicitly our values and describe the behaviors for maintaining and protecting those values.

The following values are fundamental to academic integrity and are adapted from the International Center for Academic Integrity. In our course, these values are open to discussions and possible alterations based on mutual agreements among all students and the instructional team. In collaborative work, each group should discuss these values and must articulate the expectations for how they are made manifest within the group’s work together.

<table>
<thead>
<tr>
<th></th>
<th>As students, we will …</th>
<th>As the instructional team, we will …</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Honesty</strong></td>
<td>● Honestly demonstrate your knowledge and abilities according to</td>
<td>● Give you honest feedback on your demonstration of knowledge and abilities on assignments and exams</td>
</tr>
<tr>
<td></td>
<td>expectations listed in the syllabus or in relation to specific</td>
<td>● Communicate openly and honestly about the expectations and standards of the course through the</td>
</tr>
<tr>
<td></td>
<td>assignments and exams</td>
<td>syllabus and in relation to assignments and exams</td>
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<td></td>
<td>● Communicate openly without using deception, including citing</td>
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<td></td>
<td>appropriate sources</td>
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<tr>
<td><strong>Responsibility</strong></td>
<td>● Complete assignments on time and in full preparation for class</td>
<td>● Give you timely feedback on your assignments and exams</td>
</tr>
<tr>
<td></td>
<td>● Show up to class on time and be mentally physically present</td>
<td>● Show up to class on time and be mentally and physically present</td>
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<table>
<thead>
<tr>
<th>Respect</th>
<th>Fairness</th>
<th>Trustworthiness</th>
<th>Courage</th>
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<tbody>
<tr>
<td>● Participate fully and contribute to team learning and activities</td>
<td>● Speak openly with one another while respecting diverse viewpoints and perspectives</td>
<td>● Not engage in personal affairs while on class time</td>
<td>● Say or do something when we see actions that undermine any of the above values</td>
</tr>
<tr>
<td></td>
<td>● Create relevant assessments and class activities</td>
<td>● Be available to all students when we say we will be</td>
<td>● Accept a lower or failing grade or other consequences of upholding and protecting the above values</td>
</tr>
<tr>
<td></td>
<td>● Respect your perspectives even while we challenge you to think more deeply and critically</td>
<td>● Follow through on our promises</td>
<td>● Accept the consequences (e.g. lower teaching evaluations) of upholding and protecting the above values</td>
</tr>
<tr>
<td></td>
<td>● Help facilitate respectful exchange of ideas</td>
<td>● Not modify the expectations or standards without communicating with everyone in the course</td>
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All course materials are the property of the instructor, the course, and University of California, San Diego and may not be posted online, submitted to private or public repositories, or distributed to unauthorized people outside of the course. Any suspected instances of a breach of academic integrity will be reported to the Academic Integrity Office for review.

4 This class statement of values is adapted from Tricia Bertram Gallant Ph.D.

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