BIOL 3302: EUKARYOTIC MOLECULAR & CELL BIOLOGY The University of Texas at Dallas Fall, 2016

TEXT: Lodish *et al., Molecular Cell Biology*, Seventh Edition, 2013 (ISBN 13: 978-1-4292-3413-9) Or: Sixth Edition, 2008 (ISBN 0-7167-7601-4) CLASS HOURS: Tuesday and Thursday, 10:00 -11:15 am, FN 2.102 (Polykarp Kush Auditorium)

Dr. Jung-whan (Jay)	Kim: Office: BSB 12.530		Appointment only jay.kim@utdallas.edu
Dr. Jing Pan:	Office: FN3.208	Hours: Email:	TBA jing.pan1@utdallas.edu

Course Materials

Course material and grades will be posted on eLearning.

Workshops

All students enrolled in BIOL 3302 must also enroll in a workshop (BIOL 3102). The grade for BIOL 3102 will be determined by a combination of attendance and homework or in class quizzes grades, and it will be worth 10% of the overall grade given for BIOL 3302. The same letter grade will be assigned for both the lecture and workshop components of the course. Poor performance in the workshop can drop your grade in the lecture part of the course (BIOL 3302) from an A to a B, or from a B to a C, etc. The same grade will be assigned for both BIOL 3301 and BIOL 3302. If you drop the course, you must drop both 3302 and 3102.

WORKSHOPS BEGIN THE WEEK OF AUGUST 29, 2015.

There will be four exams given in BIOL 3302. The exam questions will be a combination of multiple-choice plus brief essay or short-answer questions. Each of the four exams will be worth 22.5% of the final grade, and each will cover all of the material presented in class since the previous exam (lectures, handouts, and assigned reading), for a total of **90%**. The remaining **10%** of your grade is from the workshops- homeworks, quizzes etc. Scoring on the exams is done by the graduate Teaching Assistants, but the Instructor determines in advance what key points must be included in each answer to get full credit. The Instructor checks your scores after the TA has graded the exams, and assigns letter grades.

If you have questions about the grading or your performance in an exam, please see the instructors as soon as possible. Although letter grades may be provided after each exam, these should be treated only as a reflection of your relative performance when compared to the rest of the class. <u>The final course grade will be based not on these individual letter</u> grades, but on the total of the numeric scores of all four exams and the homework.

Section #	Time/Location	ТА
3102-005	Fri 1:00- 1:50pm/ FN2.106	Karthik Shashikanth
3102-006	Fri 1:00- 1:50pm/ FN2.106	Karthik Shashikanth
3102-007	Mon 1:00- 1:50pm/ FN2.106	Marc Gosnell
3102-008	Mon 1:00- 1:50pm/ FO3.222	Kelly Daescu
3102-009	Wed 1:00- 1:50pm/ FO3.222	MD Alam

TAs for workshops (BIOL 3102)¹:

¹ All students enrolled in BIOL 3302 must also enroll in a workshop (BIOL 3102). If for any reason you decide to drop the BIOL 3302, you must also drop BIOL 3102!

TA CONTACT INFORMATION

Karthik Shashikanth: kxs157130@utdallas.edu Marc Gosnell: mxg134330@utdallas.edu Kelly Daescu: kxr131930@utdallas.edu MD Alam: mxa094120@utdallas.edu

Grading (Credit) Criteria

Students are assessed based on:

Exams
 Homework, Quizzes
 Your numerical grade will be calculated as follows:
 1st half, Jung-whan Kim: 50%

 Exam 1: 20%
 Exam 2: 25%
 Quizzes: 5%
 2nd half, Jing Pan: 50%

- Exam 3: 22.5%
- Exam 4: 22.5%
- Homework: 5%

Exact grade cutoff will be determined based on grouping of total numerical grades. + and – will be assigned within each letter grade to further distinguish subgroups.

Make-up EXAMS

No make-up exam will be given for absence from an exam other than for official university business or illness (both require either a written university authorization or a physician's statement).

These exams will be scheduled on a need only basis. If you are unwell and unable to attend the exam, please email the instructor at the earliest available opportunity. Also, please remember to bring a copy of the doctor's note on the day your make-up exam is scheduled. These exams will be scheduled to the convenience of the teaching assistants (graduate) or the instructor.

EXAM VIEWING OFFICE HOURS

Instructors will send announcements on elearning about office hours for viewing exams after they have been graded. Please be sure to come and visit the instructor during these hours. If the allotted time is in conflict with your classes, please email instructor in advance for an alternate time. No grade changes will be made three weeks after the date of the exam.

SCHEDULE OF LECTURES BIO 3302, Fall 2016

Dates	Session	Instructor	Topics	Reading
Tue, Aug 23	1	J. Kim	Introduction	
Thur, Aug 25	2	J. Kim	Organelles and Membranes	
Tue, Aug 30	3	J. Kim	Transport (Quiz 1)	
Thur, Sept 1	4	J. Kim	Cellular Bioenergetics (Quiz 2)	
Tue, Sept 6	5	J. Kim	Obesity and Diabetes (Quiz 3)	
Thur, Sept 8	6	J. Kim	Cancer Metabolism (Quiz 4)	
Tue, Sept 13	7	J. Kim	Therapeutic targeting metabolism (Quiz 5)	
Thur, Sept 15	8	J. Kim	EXAM 1	
Tue, Sept 20	9	J. Kim	Signal Transduction and GPCR	
Thur, Sept 22	10	Nikki Delk	Introduction to Cancer Biology	
Tue, Sept 27	11	J. Kim	Extracellular Matrix and Tumor Microenvironment (Quiz 6)	
Thur, Sept 29	12	J. Kim	Tumor Heterogeneity (Quiz 7)	
Tue, Oct 4	13	J. Kim	Research Ethics, Animal Models and Welfare (Quiz 8)	
Thur, Oct 6	14	Guest	Title TBA	
Tue, Oct 11	15	J. Kim	EXAM 2	
Thur, Oct 13	1	Pan	Protein targeting	Chapter 13
Tue, Oct 18	2	Pan	Protein targeting	Chapter 13
Thur, Oct 20	3	Pan	Protein targeting	Chapter 13
Tue, Oct 25	4	Pan	Vesicular trafficking	Chapter 14
Thur, Oct 27	5	Pan	Vesicular trafficking	Chapter 14
Tue, Nov 1	6	Pan	Actin	Chapter 17
Thur, Nov 3	7	Pan	EXAM 3	
Tue, Nov 8	8	Pan	Actin	Chapter 17
Thur, Nov 10	9	Pan	Actin	Chapter 17
Tue, Nov 15	10	Pan	Microtubules	Chapter 18
Thur, Nov 17	11	Pan	Microtubules	Chapter 18
Tue, Nov 22			Fall break	
Thur, Nov 24			Fall break	
Tue, Nov 29	12	Pan	Cell cycle	Chapter 19
Thur, Dec 1	13	Pan	Cell cycle	Chapter 19
Tue, Dec 6	14	Pan	EXAM 4	

STUDENT CONDUCT AND DISCIPLINE

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

ACADEMIC INTEGRITY

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

EMAIL USE

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

WITHDRAWAL FROM CLASS

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student.

You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

STUDENT GRIEVANCE PROCEDURES

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's Handbook of Operating Procedures.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the deal will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

INCOMPLETE GRADES

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of \underline{F} .

DISABILITY SERVICES

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is: The University of Texas at Dallas, SU 22 PO Box 830688 Richardson, Texas 75083-0688 (972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

RELIGIOUS HOLIDAYS

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

OFF-CAMPUS INSTRUCTION AND COURSE ACTIVITIES

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at <u>http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm</u>. Additional information is available from the office of the school dean.