BIO 6356: 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: Monday and Wednseday 11:30 – 12:45 PM, JO 3.516

Dr. Uma Srikanth:	<i>Office:</i> FN3.108 <i>Phone:</i> 972-883-6570	Hours: Monday 2:00 – 3:00 PM Email: <u>ukrish@utdallas.edu</u>
Dr. John Burr	Office: Phone:	Email : burr@utdallas.edu Hours:

Course Materials

Dr. Srikanth's course material and grades will be posted on eLearning.

Dr. Burr does not use eLearning; his course information and grades will instead be posted at: http://www.utdallas.edu/~burr/BIO3302

Grading Policy

The course grade will be based on the average score in four exams given in the course and a short research paper on a topic related to cell biology. Papers (8-15 pages) will be submitted to Dr. Burr as an email Word document attachment no later than Dec 2, 2016. (The paper is graded Pass/Fail.) **BIOL 6356 students are not required to turn in homeworks or attend workshops. If you would like to attend workshops, then here is the list of workshop times and days.**

TAs for	workshops	(BIO 3102) ¹	:
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Section #	Time/Location	ТА	
3102-001	Fri 1:00- 1:50pm/ FO3.222	Steven Mao	
3102-002	Fri 1:00- 1:50pm/ FN2.106	Michael Neugent	
3102-003	Mon 1:00- 1:50pm/ FN2.106	Michael Lee, Jr.	
3102-004	Mon 1:00- 1:50pm/ FO3.222	Luke Joyce	
3102-009	Wed 1:00- 1:50pm/ FO3.616	Mehran Golkarparvin	

Graduate TAs' for the course : Sagar Sohoni, Hetal Randeria and Amelie Skopp

SCHEDULE OF LECTURES

BIO 6356, Fall 2016

Dates	Session	Instructor	Topics	Reading
Mon, Aug 22	1	Srikanth	Introduction & Biomolecules	Chapter 2
Wed, Aug 24	2	Srikanth	Cell Biology Techniques	Chapter 9
Mon, Aug 29	3	Srikanth	Cell Biology Techniques	Chapter 9
Wed, Aug 31	4	Srikanth	Biomembrane Structure	Chapter 10
Mon, Sept 5			Labor day Holiday	
Wed, Sept 7	5	Srikanth	Biomembrane Structure	Chapter 10
Mon, Sept 12	6	Srikanth	Transport of Ions and Small Molecules	Chapter 11
Wed, Sept 14	7	Srikanth	Review	
Mon, Sept 19	<mark>8</mark>	<mark>Srikanth</mark>	EXAM 1 (Chapters parts of 2, 9, 10, and 11)	
Wed, Sept 21	9	Srikanth	General Principles of Signaling	Chapter 15
Mon, Sept 26 Wed, Sept 28	10, 11	Srikanth	G protein coupled Signaling	Chapters 15
Mon, Oct 3 Wed, Oct 5	12,13	Srikanth	Signaling pathways that control Gene Expression and Review	Chapter 16
Mon, Oct 10	14	Srikanth	Signaling pathways and Review	Chapter 16
Wed, Oct 12	<mark>15</mark>	<mark>Srikanth</mark>	EXAM 2 (on material in sessions 9-14)	
Mon, Oct 17 Wed, Oct 19	16, 17	Burr	Moving proteins into membranes & organelles	Chapter 13
Mon, Oct 24 Wed, Oct 26 Mon, Oct 31	18, 19, 20	Burr	Vesicular traffic, secretion & endocytosis	Chapter 14
Wed, Nov 2 Mon, Nov 7	21, 22	Burr	Cytoskeleton: actin filaments in muscle cells	Chapter 17
Wed, Nov 9	23	Burr	Cytoskeleton: actin filaments in non- muscle cells (1)	Chapter 17
Mon, Nov 14	<mark>24</mark>	<mark>Burr</mark>	EXAM 3 (Chapters 13 & 14; part of Ch 17: Actin in muscle cells)	
Wed, Nov 16	25	Burr	Actin filaments in non- muscle cells (2)	Chapter 17
Nov 21-23			Fall Break	
Mon, Nov 28	26	Burr	Regulation of actin polymerization in vitro	Chapter 17
Wed, Nov 30 Mon, Dec 5	27, 28	Burr	Microtubules; intermediate filaments	Chapter 18
Wed, Dec 7	29	Burr	EXAM 4 (Ch 17: Actin in non-muscle cells, etc; Ch 18: MT's, IF's	

Make- up EXAMS

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.