



Course Syllabus: Contemporary Topics in Bioscience - B 394B

Division	Biological and Environmental Sciences & Engineering Division
Course Number	B 394B
Course Title	Contemporary Topics in Bioscience
Academic Semester	Spring
Academic Year	2018/2019
Semester Start Date	01/27/2019
Semester End Date	05/23/2019
Class Schedule (Days & Time)	05:30 PM - 07:00 PM Wed Thu

Instructor(s)				
Name	Email	Phone	Office Location	Office Hours
Salim Al-Babili	Salim.Babili@KAUST.EDU.S A	+966128082565		

Teaching Assistant(s)	
Name	Email

Course Information	
Comprehensive Course Description	
Course Description from Program Guide	
Goals and Objectives	
Required Knowledge	
Reference Texts	
Method of evaluation	
Nature of the assignments	
Course Policies	
Additional Information	

Tentative Course Schedule

(Time, topic/emphasis & resources)

Week	Lectures	Topic
1	Wed 01/30/2019 Thu 01/31/2019	
2	Wed 02/06/2019 Thu 02/07/2019	
3	Wed 02/13/2019 Thu 02/14/2019	
4	Wed 02/20/2019 Thu 02/21/2019	
5	Wed 02/27/2019 Thu 02/28/2019	
6	Wed 03/06/2019 Thu 03/07/2019	
7	Wed 03/13/2019 Thu 03/14/2019	
8	Wed 03/20/2019 Thu 03/21/2019	
9	Wed 03/27/2019 Thu 03/28/2019	Spring Break
10	Wed 04/03/2019 Thu 04/04/2019	
11	Wed 04/10/2019 Thu 04/11/2019	
12	Wed 04/17/2019 Thu 04/18/2019	
13	Wed 04/24/2019 Thu 04/25/2019	
14	Wed 05/01/2019 Thu 05/02/2019	
15	Wed 05/08/2019 Thu 05/09/2019	
16	Wed 05/15/2019 Thu 05/16/2019	
17	Wed 05/22/2019 Thu 05/23/2019	Final Exam Week

Note

The instructor reserves the right to make changes to this syllabus as necessary.

Course Syllabus: Contemporary Topics in Bioscience - B 394B

Division	Biological and Environmental Sciences & Engineering Division
Course Number	B 394B
Course Title	Contemporary Topics in Bioscience
Academic Semester	Spring
Academic Year	2018/2019
Semester Start Date	01/27/2019
Semester End Date	05/23/2019
Class Schedule (Days & Time)	05:30 PM - 07:00 PM Wed Thu

Instructor(s)				
Name	Email	Phone	Office Location	Office Hours
Wolfgang Fischle	wolfgang.fischle@kaust.edu.sa	+966128082498	3334, 2, Ibn Al-Haytham (bldg. 2)	Thursday, 9-10 am

Teaching Assistant(s)	
Name	Email
N/D	N/D

Course Information	
Comprehensive Course Description	<p>The aim of the course is to guide students in researching literature using different sources and in preparing and delivering scientific seminars on state of the art, contemporary topics of molecular cell biology related to their research.</p> <p>The candidates will prepare four separate seminars on different aspects of single cell biology:</p> <ul style="list-style-type: none"> -Single cell omics technologies (summary of experimental techniques) -Single cell omics epigenetics in contrast to ensemble studies (summary of findings) -2-4 first hand papers (orelated to topics 1,2) -State of the art of CIM chromatin biology <p>Seminars will be presented in front of the staff of the laboratory of Chromatin Biochemistry.</p>
Course Description from Program Guide	
Goals and Objectives	<p>Fundamental understanding of state of the art techniques and findings in single cell biology.</p> <p>Advancing skills in literature research.</p> <p>Advancing skills in the preparation and delivery of scientific seminars.</p>
Required Knowledge	MSc in cell biology, biochemistry or related fields.
Reference Texts	to be selected by the students
Method of evaluation	100.00% - Presentation
Nature of the assignments	Four independent seminars on contemporary work on single cell biology to be prepared and delivered.
Course Policies	The schedule for the seminars needs to be discussed with the instructor. All seminars need to be delivered within a 8 weeks time frame.
Additional Information	

Tentative Course Schedule

(Time, topic/emphasis & resources)

Week	Lectures	Topic
1	Wed 01/30/2019 Thu 01/31/2019	preparation
2	Wed 02/06/2019 Thu 02/07/2019	preparation
3	Wed 02/13/2019 Thu 02/14/2019	Seminar I: Single cell omics technologies (summary of experimental techniques)
4	Wed 02/20/2019 Thu 02/21/2019	preparation
5	Wed 02/27/2019 Thu 02/28/2019	preparation
6	Wed 03/06/2019 Thu 03/07/2019	Seminar II: Single cell omics epigenetics in contrast to ensemble studies (summary of findings)
7	Wed 03/13/2019 Thu 03/14/2019	preparation
8	Wed 03/20/2019 Thu 03/21/2019	preparation
9	Wed 03/27/2019 Thu 03/28/2019	Spring Break
10	Wed 04/03/2019 Thu 04/04/2019	Seminar III: Discussion of 2-4 first hand papers (topics 1,2)
11	Wed 04/10/2019 Thu 04/11/2019	preparation
12	Wed 04/17/2019 Thu 04/18/2019	preparation
13	Wed 04/24/2019 Thu 04/25/2019	preparation
14	Wed 05/01/2019 Thu 05/02/2019	Seminar IV: State of the art of CIM chromatin biology
15	Wed 05/08/2019 Thu 05/09/2019	evaluation
16	Wed 05/15/2019 Thu 05/16/2019	preparation
17	Wed 05/22/2019 Thu 05/23/2019	Final Exam Week

Note

The instructor reserves the right to make changes to this syllabus as necessary.