LIFS 6170: SPECIAL TOPICS IN MOLECULAR, CELL AND DEVELOPMENTAL BIOLOGY

Course Instructors:

Dr. Zilong WEN; course coordinator (zilong@ust.hk)
Dr. Yusong Guo(guoyusong@ust.hk)
Dr. Yung Hou WONG (boyung@ust.hk)
Dr. Yan YAN (yany@ust.hk)
Dr. Kai LIU (kailiu@ust.hk)
Dr. Angela WU (angelawu@ust.hk)

Venus:

Cheng Yu Tung Building Room G003

Time:

Tuesday and Thursday, 9:00AM – 10:50AM

Week	Date	Instructor	Topic
1 2	Sept. 5, 7, Sept. 12	WEN	Lymphocyte development and cytokine signaling
3 4	Sept. 14, 19 Sept. 21	LIU	Axon guidance and regeneration
5 6	Sept. 26, 28 Oct. 3	YAN	Mechanical forces in cell and developmental biology
6 7	Oct. 10, 12 Oct. 17	GUO	Molecular Mechanisms of intracellular trafficking
8 9	Oct. 19, 24 Oct. 26	WONG	Cell signaling by GPCRs
10 11	Oct. 31 Nov. 2, 7	WU	Novel technologies for basic science and medicine
12	Nov. 9, 14	WEN LIU	Paper presentation
13	Nov. 16, 21	YAN GUO	Paper presentation
14	Nov. 23, 28	WONG WU	Paper presentation
Final exam	Dec. 7 9AM-11:30AM		Cheng Yu Tung Building Room G003

Course Description:

Molecular, cell and developmental biology is a diverse area of life science. Students will be introduced to one or more topics of active research in each of the six topic areas.

Learning Outcomes:

1. Students will become acquainted with historical and current research in each of the topic areas
2. Students will develop the ability to assess scientific literature by writing
3. Students will develop the ability to review and present scientific literature through oral presentations

Assessment Scheme:

Each student will give one 30 minute oral presentation (40%) on an assigned paper and a closed book examination (2 and half hours), in which the students need to answer four of the six assay questions assigned by the instructors (one question, per instructor) (60%).

Student Learning Resource:

Course material (to be provided by each lecturer) will be based on historical and recent scientific literature in each of the topic areas.