

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

Course Instructors:

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Venus:

Online via ZOOM

Time:

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

Week	Date	Instructor	Topic
1 2	Sept. 2, 7 Sept. 9	YAN	Mechanical forces in cell and developmental biology
3 4	Sept. 14, 16 Sept. 21	LIU	Axon regeneration
5 6	Sept. 23, Oct. 5, 7	WU A	Novel technologies for basic science and medicine
6 7	Oct. 12, 19 Oct. 21	WONG	Cell signaling by GPCRs
8 9	Oct. 26, 28 Nov. 2	GUO	Molecular mechanisms of intracellular trafficking
10 11	Nov. 4, 9 Nov. 11	WEN	Hematopoietic cell development and cytokine signaling
12	Nov. 16, 18	YAN LIU	Paper presentation
13	Nov. 23, 25	WU A WONG	Paper presentation
14	Nov. 30, Dec. 2	WEN GUO	Paper presentation
Final exam	Dec. 14, 2021		

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 reading research article
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% of final grade) on an assigned paper and a closed book examination (2 hours), in which the students need to answer four of the six questions assigned by the instructors (one question, per instructor) (60% of final grade).

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.