

Division of Life Science
LIFS 5260
Molecular and Biochemical Basis of Diseases

Course Description:

This course will cover advanced topics on the biochemical basis of human diseases, molecular medicine and structure based drug design.

Intended Learning Outcomes:

At the end of this course, students are expected to:

- Gain knowledge about the molecular mechanism underlying certain human diseases.
- Learn how to apply knowledge from modern biomedical sciences to evaluate current treatments and envision potential future treatments.

	2019/20 Spring Semester
Date/Time:	Fri 10:30AM - 01:20PM
Venue:	Online, zoom
Course coordinator:	Prof. Kai Liu, kailiu@ust.hk x7277, office@5445

Feb 28	Mental Disorder	Prof. Kai Liu
Mar 06	Drugs and the Brain	Prof. Jun Xia
Mar 13	Traditional Chinese medicine in the treatment of chronic diseases	Prof. Karl Tsim
Mar 20	Histone modification and cancer	Prof. Toyotaka Ishibashi
Mar 27	Disease modeling and drug screening using zebrafish model system	Prof. Zilong Wen
Apr 03	Student presentation due	Prof. Kai Liu
Apr 17	Student presentation due	Prof. Jun Xia
Apr 24	Student presentation due	Prof. Karl Tsim
May 01	Student presentation due	Prof. Toyotaka Ishibashi
May 08	Student presentation due	Prof. Zilong Wen

[May 31 written comments and reports due]

Assessment Scheme:

One paper related to one topic will be assigned to each student for presentation. Each student will record a video to give an oral presentation in 20-30 minutes (35%) on the assigned paper, write comments on 2 presentations (10%), and write five 1~2 pages critical reviews on assigned papers, one per topic (total 50%). Attendance will be assessed (5%).