

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.

Prerequisite:

LIFS 4760 or equivalent

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.

Date/Time:	2017/18 Spring Semester Fri 10:30AM - 01:20PM
Venue:	Rm 5562
Course coordinator:	Prof. Kai Liu, kailiu@ust.hk x7277, office@5445

Feb 23	Mental Disorder	Prof. Kai Liu
Mar 02	Drugs and the Brain	Prof. Jun Xia
Mar 09	Traditional Chinese medicine in the treatment of chronic diseases	Prof. Karl Tsim
Mar 16	Hippo signaling in cancer	Prof. Yan Yan
Mar 23	Disease modeling and drug screening using zebrafish model system	Prof. Zilong Wen
Apr 06	Student presentation	Prof. Kai Liu
Apr 13	Student presentation	Prof. Jun Xia
Apr 20	Student presentation	Prof. Karl Tsim
Apr 27	Student presentation	Prof. Yan Yan
May 4	Student presentation	Prof. Zilong Wen

[May 29 written reports due]

Assessment Scheme:

One topic will be assigned to each student. Each student will give one 30 minute oral presentation (40%) on an assigned topic/paper and five 1~2 pages written critical reviews on assigned papers, one per topic (50%). Attendance will be checked (10%).