

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.

	2022 Spring Semester
Date/Time:	Fri 10:30AM - 01:20PM
Venue:	Rm 2129B, Lift 19
Course coordinator:	Prof. Kai Liu, kailiu@ust.hk x7277, office@5445

Feb 03	Mental Disorder	Prof. Kai Liu
Feb 10	Neurodegenerative disorders	Prof. Kenny Chung
Feb 17	Hippo signaling in cancer	Prof. Yan Yan
Feb 24	Traditional Chinese medicine in the treatment of chronic diseases	Prof. Karl Tsim
Mar 03	Structural biology in molecular disease	Prof. Lan Wang
Mar 10	Genetics in Health and Disease	Dr. Xiaopu Zhou
Mar 17	Autoimmune Diseases	Dr. Hiu Yi Wong
Mar 24	Student presentation	Prof. Kenny Chung
Mar 31	Student presentation	Prof. Kai Liu
Apr 14	Student presentation	Prof. Karl Tsim
Apr 21	Student presentation	Prof. Yan Yan
Apr 28	Student presentation	Prof. Lan Wang
May 05	Student presentation	Dr. Xiaopu Zhou
May 12	Student presentation	Dr. Hiu Yi Wong

[May 31 written reports and exam question due]

Assessment Scheme:

One paper related to each topic will be assigned to each student for presentation. Each student will give an oral presentation in 30 minutes (35%) on the assigned

paper, answer one open-book exam question (10%), and write five minimum 2-page critical paper reviews (5 out of 7 topics, total 50%). Attendance will be assessed (5%).