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 underling certain human diseases.
- Learn how to apply knowledge from modern biomedical sciences to evaluate current treatments and envision potential future treatments.

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2022 Spring Semester
Date/Time: Fri 10:30AM - 01:20PM
Venue: Online, zoom
Course coordinator: Prof. Kai Liu, kailiu@ust.hk x7277, office@5445
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Feb 11 Mental Disorder Prof. Kai Liu
Feb 18 Neurodegenerative disorders Prof. Kenny Chung
Feb 25 Traditional Chinese medicine in the treatment of chronic diseases Prof. Karl Tsim
Mar 04 Hippo signaling in cancer Prof. Yan Yan
Mar 11 Disease modeling and drug screening using zebrafish model system Prof. Zilong Wen
Mar 18 Student presentation Prof. Kai Liu
Mar 25 Student presentation Prof. Kenny Chung
Apr 01 Student presentation Prof. Karl Tsim
Apr 22 Student presentation Prof. Yan Yan
Apr 29 Student presentation Prof. Zilong Wen

[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 25 minutes (35%) on the assigned paper, answer one open-book exam question (10%), and write five minimum 2-page critical reviews on assigned papers (one per topic, total 50%). Attendance will be assessed (5%).