

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:	Online, zoom
Course coordinator:	Prof. Kai Liu, kailiu@ust.hk x7277, office@5445

---

<b>Feb 11</b>	Mental Disorder	Prof. Kai Liu
<b>Feb 18</b>	Neurodegenerative disorders	Prof. Kenny Chung
<b>Feb 25</b>	Traditional Chinese medicine in the treatment of chronic diseases	Prof. Karl Tsim
<b>Mar 04</b>	Hippo signaling in cancer	Prof. Yan Yan
<b>Mar 11</b>	Disease modeling and drug screening using zebrafish model system	Prof. Zilong Wen
<b>Mar 18</b>	Student presentation	Prof. Kai Liu
<b>Mar 25</b>	Student presentation	Prof. Kenny Chung
<b>Apr 01</b>	Student presentation	Prof. Karl Tsim
<b>Apr 22</b>	Student presentation	Prof. Yan Yan
<b>Apr 29</b>	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%).