

Joint Course Offered under HKU-CUHK-HKUST Centre for Advanced Study

<i>Department(s), institution</i>	Departments of Anatomical and Cellular Pathology, Chemical Pathology, Orthopaedics and Traumatology, School of Public Health, Faculty of Medicine, CUHK Division of Life Science, School of Science, HKUST Department of Pathology, Li Ka Shing Faculty of Medicine, HKU		
<i>Course description</i>	Course title: Molecular Medicine		
	<p>This joint course will introduce the basic concepts, modern techniques as well as the latest analytic technologies in Molecular Medicine. The current usages of molecular diagnostic tests will be discussed, where cancer will be used as one of the disease models. Here are the specific objectives will be covered in the course:</p> <ul style="list-style-type: none"> • To deliver basic knowledges of chromosomal abnormality and immunoregulation in cancer development, and their clinical significance. • To discuss the genetic basis of cancer and implications for clinical diagnosis, prognostication, and disease monitoring. • Special topics in neuroscience/cancer biology: to focus on neuronal signalling and neurodegenerative diseases, and cell cycle control. • Cell signalling: to discuss the concept and techniques used in signal transduction study and its connection with cancer. • To obtain basic knowledge in molecular diagnostics. • To obtain basic concepts on the design of molecular medicine studies, including statistical considerations. • To obtain basic knowledge on high throughput molecular technologies, including those used in proteomics and the mass spectrometric analysis of nucleic acids. 		
<i>University</i>	CUHK	HKUST	HKU
<i>Course code</i>	MEDP 6001	LIFS 6660	MMPH 6020
<i>Course credits/units</i>	3 units	3 credits	N/A
<i>Course title</i>	Molecular Medicine		
<i>Grading scheme</i>	A-F grades	Pass/Fail	A-F grades
<i>Term offered</i>	2 nd semester, 2025-26 (January – Apr 2026)		
<i>Teacher</i>	Prof. Patrick Tang Prof. Peiyong Jiang Prof. Huating Wang Prof. Maggie Wang		Prof. Carmen CL Wong Prof. Helen HN Yan Prof. Judy WP Yam Prof. Jack CM Wong
<i>Class schedule</i>	Please refer to page 3		

<i>Assessment</i>	<ul style="list-style-type: none">▪ An essay assignment is needed for assessment (max 2500 words).▪ Attendance rate at least 75% is required for HKUST students (need to sign <u>before and after</u> the class).▪ Every teacher will set an essay question related to their lecture topic, which will be available for student to select in the end of April 2026.▪ A quota is set for each topic (max: 6 students/topic).▪ Students need to indicate their top three choices in priority order within one week and be required to submit their essays within one month.▪ In case of over-quota in any topic, students will be chosen in random, and remaining students will be assigned to their second-choice topic.▪ The essays will be graded A to F by the topic teachers for grades, which can be translated into Pass/Fail according to each institution's system.▪ The dissertation assessment guidelines currently adopted by the Master of Medical Sciences programme at HKU and a similar marking scheme from the CUHK would be taken as a reference.▪ Academic results for CUHK students will be released in <u>late July 2026</u>.
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