

## 國立清華大學課程大綱

科號	11210BME 504600	組別	N/A	學分	3	人數限制	N/A
上課時間	M2M3M4			教室	會議室		
科目中文名稱	液態生物檢體與轉譯醫學應用						
科目英文名稱	Liquid biopsy and its applications in translational medicine						
任課教師	林幸瑩						
擋修科目	Discuss with professor prior to registering the course.			擋修分數	N/A		
一、課程說明	This course provides paper discussion of liquid biopsy related technologies. BME students will have more comprehensive knowledge about current research works in liquid biopsy and its clinical value.						
二、指定用書	N/A						
三、參考書籍	Slides Journal papers Execute projects						
四、教學方式	Slides Study journal papers Presentation & discussion Projects						
五、教學進度	1. Heterogeneity of extracellular vesicles. 2. EV isolation, purification, characterization, quantification, proteomics, engineering, manufacturing. 3. Profiling of extracellular vesicles. 4. Imaging extracellular vesicles.						
六、成績考核	Paper reading and discussion 30% Midterm exam 30% Team work 30% Attendance 10%						
七、講義位址 http://	Google Drive will be provided.						