

高等生物技術 (Advanced Biotechnology)

上課學期：108 學年度第一學期 上課時間：星期五上午 10:10 ~ 12:00

上課地點：醫學院生化所研討室(82-0929) 協調老師：張文祭

課程目的：各授課教師針對其專精的生物技術，教導其做法、最新進展及應用。

評分方式：課中討論(50%)；期末討論(50%)

Date	Topic	Lecturer
9/13	Nation Holiday - Mid-Autumn Festival	
9/20	Introduction & RNAi and its applications	張文祭
9/27	CRISPR/Cas9-mediated editing of genomic DNA	張文祭
10/4	Research methods for cancer metastasis	鄭宏祺
10/11	Nation Holiday - National Day Holiday (Bridge Day)	
10/18	Next generation sequencing (NGS)	陳芄潔
10/25	Organelle separation: centrosome structure and function	王家義
11/1	Glycan structure analysis	張權發
11/8	Application of high-throughput screening technologies in chemical genetic and reverse genetic studies	陳昌熙
11/15	Mid-term discussion	張文祭
11/22	X-ray crystallography	王淑鶯
11/29	Transgenic and knockout mice	楊尚訓
12/6	Proteomics	廖寶琦
12/13	Gene delivery systems	王憲威
12/20	Methods for studying translational control	余建泓
12/27	Bioinformatics analysis	劉宗霖
2020/1/3	Stem cell and tissue engineering	王仰高
2020/1/10	DNA methylation and epigenetic determinants	黃柏憲
2020/1/17	Final discussion	張文祭