慈濟大學 9 5 學年度 研究所碩士班招生考試命題紙

科目:分子生物學

共1頁

問答題:

- 1. Please describe how an eukaryotic pre-messenger RNA is spliced. (15%)
- 2. What is Li-Fraumeni syndrome? (10%)
- 3. Explain the following techniques used in molecular biology: a) Northern blot, b) reporter system. (10%)
- 4. List one complete signal transduction pathway from cell surface to gene transcription. (15%)
- 5. 請說明 death receptor-induced apoptosis 之作用機轉。 (15%)
- 6. 請說明細胞骨架 (cytoskeleton) 如何調控細胞分裂。 (10%)
- 7. Which is the following sequence that can be recognized and cut by restriction enzyme? Please give your explanation. (10%)
- (A) GAAAAG (B) GIAATTC (C) GAATTC (D GAAAAG CTTAA G CTTAA G CTTATC
- 8. Please write down the full name of RNAi, siRNA, miRNA, please explain and compare their function. (15%)