

題號： 446

國立臺灣大學 106 學年度碩士班招生考試試題

科目：分子與細胞生物學

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Essay questions, 15 points each

1. List 3 proteins involved in the polymerization and depolymerization of actin filament. How do they work? What does actin treadmilling mean?
2. List 3 proteins involved in the apoptosis pathway? What are their roles?
3. Cancer is the leading cause of death in Taiwan and many other countries. Other than the tumor resection (surgical removal) and chemotherapy; describe 2 other strategies now you can use to cure a patient?
4. Phosphorylation is a common mechanism for signal transduction. Describe the functions of 2 different phosphorylation pathways.
5. Describe 2 cellular functions in which microtubule is involved. And how?

Simple questions, 5 points each

6. Electron-transport complexes
7. Membrane potential
8. Membrane asymmetry
9. G-protein coupled receptor
10. Peroxisome

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