題號:461 國立臺灣大學100學年度碩士班招生考試試題

科目:細胞生物學(B)

題號: 461

共 / 頁之第 全頁

第一部分:問答題(每題十分共六十分)

- 1. Please describe 4 general schemes of intracellular signaling.
- 2. Calcium is a critical ion for cellular functions. What is the normal range of intracellular calcium concentration and how it is maintained?
- 3. Please describe the On/Off switches for the activation and inactivation of GTP-binding proteins (G-proteins).
- 4. Please describe and draw steps of how a cell moves.
- 5. Please draw a cell cycle and indicate each stage and its respective function.
- 6. Who is the 2010 Nobel Prize Winner in Physiology or Medicine? Please describe his work and its contribution.

第二部分:解釋名詞(每題四分共四十分)

- 1. adenylyl cyclase
- 2. apoptosis
- 3. inositol 1,4,5-trisphosphate
- 4. filamentous actin
- 5. mesoderm
- 6. promoter
- 7. receptor tyrosin kinase
- 8. telomere
- 9. Wnt
- 10. zygote

試題隨卷繳回