

問答題

1. Please sketch a graph to illustrate the hierarchy of blood cell differentiation, originating from hematopoietic stem cell to each kind of mature blood cell. (10%)
2. Please describe the characteristics of molecular abnormalities found in hematologic neoplasms, give an example for each. (10%)
3. Please describe the common interferences found in clinical laboratory that might lead to errors in the "Platelet count" in using automated blood analyzers. What should we do to correct the data? (5%)
4. There are 2 different quality assurance programs carried out in each clinical hematology laboratory, namely "intrinsic quality control activity" and "extrinsic quality assessment". Please describe the differences in the purposes and the way to carry out between these programs (10%)
5. 請敘述三種血小板"量"異常的疾病及其檢驗方法 (6%)
6. 請敘述三種血小板"質"異常的疾病及其檢驗方法 (6%)
7. 請敘述凝血檢驗自動化儀器的偵測原理 (8%)
8. 請敘述血漿凝血,抗凝血以及溶血相關因子的功能 (15%)
9. 請寫出與 JAK2V617F mutation 相關的三種疾病 (6%)
10. 請寫出 ferroportin 在鐵的利用中扮演的角色,並說明如何被 hepcidin 調控 (6%)
11. 請寫出調控 Hb 與 O₂ 之間親合力的因子以及其中的機制 (10%)
12. 請寫出區分 iron deficiency anemia, alpha-thalassemia minor 與 beta-thalassemia minor 的實驗室鑑別診斷 (8%)

試題隨卷繳回