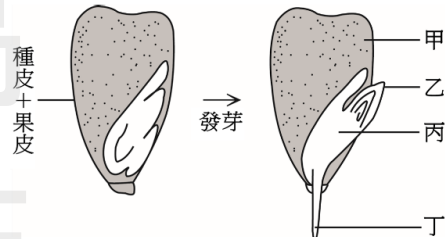


中國醫生物命中事實

6. 下列四個項目爲人體心臟內構造，在傳導心臟收縮電訊號的正確次序爲何？

- 甲、房室結(AV node)
- 乙、竇房結(SA node)
- 丙、浦金氏纖維(Purkinje fibers)
- 丁、房室束(bundle of His)

- (A) 甲→乙→丙→丁
- (B) 甲→乙→丁→丙
- (C) 甲→丙→乙→丁
- (D) 乙→甲→丁→丙
- (E) 乙→甲→丙→丁



生物講義第四回 Page 60 範例1 完全命中

【範例】

1. 請重組以下控制心臟規律跳動之電訊號正確的傳遞路徑

- 甲、節律點 (SA node)
- 乙、蒲金尼纖維 (Purkinje fiber)
- 丙、房室竇 (AV node)
- 丁、His bundle

- A. 甲丙丁乙
- B. 甲丁乙丙
- C. 乙丙丁甲
- D. 丙丁乙甲

2. Damage to the sinoatrial node in humans

- A. is a major contributo to heart attacks.
- B. would block conductance between the bundle branches and the Purkinje fibers.
- C. would have a negative effect on peripheral resistance.
- D. would disrupt the rate and timing of cardia muscle contractions.
- E. would have and effect on blood pressure monitors in the aorta.

3. A nonfunctional sinoatrial node would

- A. have no adverse effects on heart contraction.
- B. cause the heart to stop beating in an autorhythmic fashion.
- C. result in a block in ventricular contractions.
- D. cause no effects because hormones will take over regulation of the heart beat.
- E. have no significant effect on stroke volume.

16. 下列何者可引發波爾氏移轉(Bohr shift)反應？

- (A) 貧血 (B) 體溫上升 (C) 血氧濃度增加
(D) 血液中碳酸濃度增加 (E) 血液中 2,3-二酸甘油酸鹽(2,3-DPG)濃度增加

與生物講義第四回 Page 265 範例 一樣

【範例】

1. The Bohr effect on the oxygen-hemoglobin dissociation curve is produced by changes in
- A. the partial pressure of oxygen.
 - B. the partial pressure of carbon dioxide.
 - C. hemoglobin concentration.
 - D. temperature.
 - E. pH.

—265—

【版權所有，翻印必究】

33. 關於植物賀爾蒙與動物賀爾蒙特性的敘述，何者正確？
- (A) 動植物都由腺體來製造賀爾蒙
 - (B) 動物有固醇類賀爾蒙，植物則無
 - (C) 植物賀爾蒙有氣體形式，動物則無
 - (D) 動物及植物賀爾蒙均需要透過細胞外液及組織間液進行運送
 - (E) 相較於動物賀爾蒙，大部分植物賀爾蒙需要較高濃度才能誘發相對應反應

與生物講義第十回 Page 224 範例3 相似

植物生理學

【範例】

1. Plant hormones can be characterized by all of the following except that they
 - A. may act by altering gene expression.
 - B. have a multiplicity of effects.
 - C. function independently of other hormones.
 - D. control plant growth and development.
 - E. affect division, elongation, and differentiation of cells.
2. Plant hormones produce their effects by
 - A. altering the expression of genes.
 - B. modifying the permeability of the plasma membrane.
 - C. modifying the structure of the nuclear envelope membrane.
 - D. both A and B.
 - E. both B and C only.
3. Why might animal hormones function differently from plant hormones?
 - A. Animals move rapidly away from negative stimuli, and most plants don't.
 - B. Plant cells have a cell wall that blocks passage of many hormones.
 - C. Plants must have more precise timing of their reproductive activities.
 - D. Plants are much more variable in their morphology and development than animals.
 - E. Both A and D are correct.
4. Why is it so difficult to study the actions of plant hormones?
 - A. Their effects are often the result of an interaction of hormones.
 - B. They are found in small quantities in the plant.
 - C. We probably have not discovered all of them.
 - D. They sometimes cause different responses in different plants.
 - E. All of the above make the study of plant hormones difficult.