

下列有關oxidative phosphorylation之敘述，何者錯誤？

- A. 其為high-energy phosphate主要來源
- B. matrix的H⁺負責能量的傳遞
- C. oligomycin抑制F₀
- D. 電子傳遞鏈以proton pump方式釋放能量

ANSWER: B

粒線體氧化磷酸化之去偶合（uncoupling）會造成下列何種現象？

- A. ATP持續合成，但停止O₂消耗
- B. ATP不合成，但O₂仍然消耗
- C. 抑制粒線體之所有代謝反應
- D. 抑制電子傳遞及O₂之消耗

ANSWER: B

You determine that a protein has an attached polyubiquitin chain. It is likely that this protein will be?

- A) targeted to the lysosome for degradation
- B) targeted to the 26S proteasome for degradation
- C) included in insoluble toxic deposits known as amyloids fibers
- D) degraded by E1, E2, and E3 enzymes

ANSWER: B

Alzheimer's disease, Huntington's disease, and Creutzfeld-Jakob disease are all examples of: ?

- A) transmissible spongiform encephalopathies
- B) trinucleotide repeat disorders
- C) protein misfolding diseases
- D) diseases that are not related in any way

ANSWER: C

A prion is an infectious protein?

- A) with an excess of phosphate modifications
- B) associated with viruses
- C) that induces genetic changes (changes in DNA sequence)
- D) with an altered conformation

ANSWER: D