

1. Which of the following is NOT an important ER-resident enzyme that modifies proteins that are transported from the ER to the Golgi?

- a) oligosaccharyl transferase
- b) protein disulfide isomerase
- c) COPII ✓
- d) BiP

2. What would be the result of a mutation introduced into a vesicle associated GTP-binding protein resulting in the inability to hydrolyze GTP?

- a) Cells incapable of transporting cytoplasmic proteins to mitochondria
- b) Cells incapable of transporting nascent proteins into the ER
- c) Cells incapable of glycosylating proteins in the ER
- d) Cells incapable of transporting proteins from the ER to the Golgi

3. In addition to binding mitotic cyclin, what else is required for MPE (mitosis-promoting factor) activation?

- a) Phosphorylation of CDK at a critical threonine residue (Thr161)
- b) Dephosphorylation of CDK at a critical threonine residue (Thr161)
- c) Phosphorylation of CDK at two critical amino acid residues (Tyr15 and Thr161) ✓
- d) Phosphorylation of CDK at a critical tyrosine residue at position 15 (Tyr 15)

4. All the following statements about destruction of cyclins are true, except:

- a) Destruction is carried out by proteasomes.
- b) Destruction is preceded by polyubiquitination. ✓
- c) Ubiquitination occurs at specific sites on target molecules. ✓
- d) Phosphorylation of cyclins promotes their destruction

5. The progression of mitosis from anaphase to telophase depends on:

- a) phosphorylation of Cdc25 by Wee1 ✗
- b) ubiquitination of mitotic cyclin proteins by APC ✓
- c) ubiquitination of the mitotic spindle
- d) Phosphorylation of the S-Phase inhibitor by G1/S-cyclin/cdk complexes.

6. Osmium tetroxide is commonly used to:

- a) stain specimens for light microscopy ✗
- b) coat specimens to visualize their 3D structure by DIC ✗
- c) stain specimens for transmission electron microscopy ✓
- d) link gold particles to antibodies for use in immunoelectron microscopy

7. A myeloma cell is BEST described as a(n):

- a) progenitor cell ✗
- b) immortal cell that cannot produce antibodies
- c) self-renewing stem cell ✗
- d) cell that survives in HAT medium ✗

Biology Midterm Exam Answers

Michael F. Fleming



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