

Advanced High School Biology

Advanced Biology · Practice Test · 2 Questions

1. Which structure triggers Rho-independent transcription termination in prokaryotes?

- A) A GC-rich hairpin loop followed by a poly-U tract in the mRNA
- B) A phosphorylation signal on the C-terminal domain of RNA polymerase II
- C) A polyadenylation signal sequence (AAUAAA) recognized by endonucleases
- D) A stem-loop structure bound by a single-stranded DNA binding protein

2. Which primary enzyme carries out initial carbon fixation in C4 photosynthesis?

- A) Ribulose-1,5-bisphosphate carboxylase-oxygenase (Rubisco)
- B) Phosphoenolpyruvate carboxylase (PEP carboxylase)
- C) Glyceraldehyde 3-phosphate dehydrogenase
- D) Pyruvate-phosphate dikinase