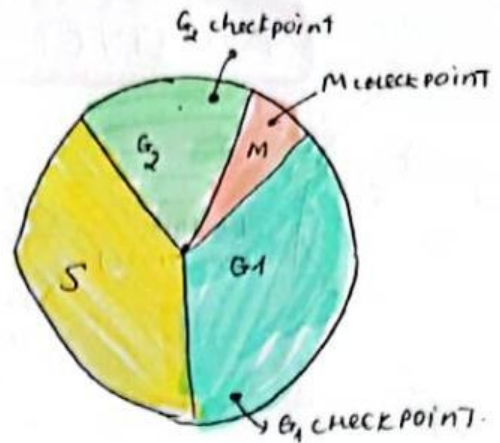
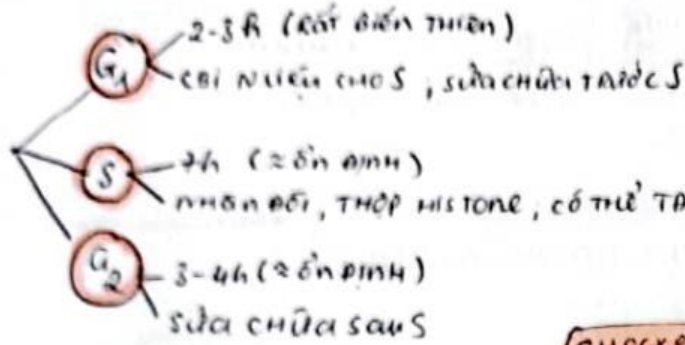


~~NGUYÊN NHÂN~~

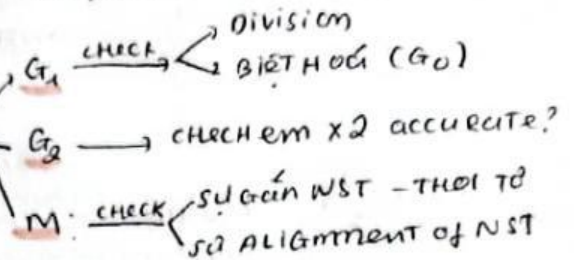
CHU KỲ TẾ BÀO



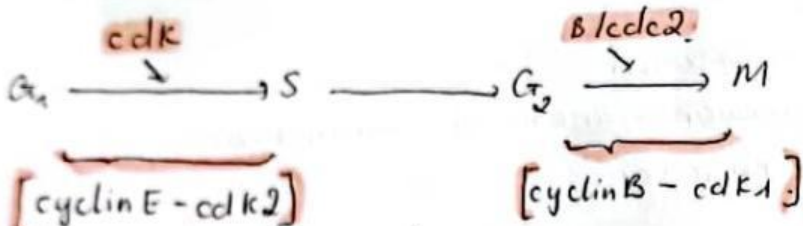
GIÂN KỲ



CHECKPOINT

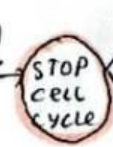


KIỂM SOÁT



CDK: cyclin dependent kinase
→ GIÚP CHUYỂN PHA

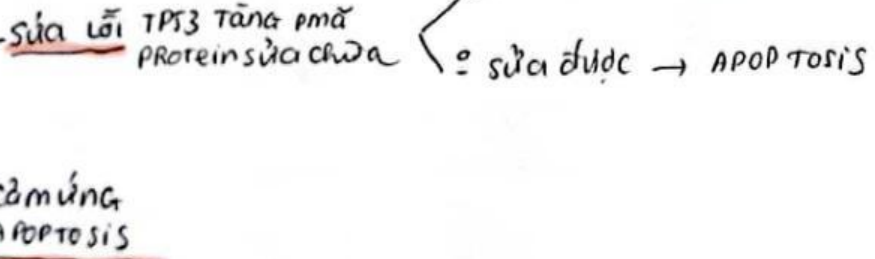
TP53 mã hoá protein p53
ỨNG ỨNG CKTB p53 KÍCH THÍCH PMẮC p21.
p21 ỨNG ỨNG [cyclin - cdk]



at G₁: TRÁNH TÁI SẠO DNA DẶT ĐEO
at G₂: TRÁNH NGỪNG TỤ NST DẶT ĐEO

TP53

ROLE



LỖI TP53

THIẾU TP53

PHÂN BỐ T
apoptosis ↓ ⇒ TB HƯ ○ CHẾT ⇒ UNG THƯ

ĐỘT BIẾN GEN TP53

common: ĐBB exon 5 → 9

RESULT ⇒ protein

→ VỠ ĐUNG
→ CỨNG ACID (BÊN) } ⇒ TÍCH TỤ