Pre-class quiz (online)

Which gene type linked to cancer accelerates cell division and growth?

**A. oncogene**

B. tumor suppressor

C. DNA repair genes

P53 is an example of which gene type linked to cancer?

A. oncogene

**B. tumor suppressor**

C. DNA repair genes

P53 can’t work without binding to 3 other copies of p53. Which of the following domains allows p53 to do this?

A. Transactivation domain

B. DNA binding domain

**C. Complexing domain**

What is a transcription factor?

A. A protein that makes copies of itself.

**B. A protein that regulates the activation of other genes.**

C. A cell signaling molecule that triggers a signal cascade.

In order to activate a gene, P53 recruits

A. DNA polymerase

**B. RNA polymerase**

C. DNA repair gene

What are the three stages of cellular communication?

A. Reception, translation, response

**B. Reception, transduction, response**

C. Transduction, amplification, response

Which membrane bound protein receptor would you expect to lead to influx of sodium ions?

**A. ligand-gated channel**

B. G-protein coupled receptor

C. Integrin

Why would the receptor you chose lead to influx of sodium ions?

**A. Sodium will not cross the membrane without a channel to facilitate it due to its charge.**

B. Sodium needs the cell wall to change shape in order to let it enter the cell.

C. Sodium will not enter the cell until the membrane composition is modified to allow it.