

Chapter 09 Keys to Success

What phases occur in a diagram of the cell cycle? Which phase takes up the bulk?

What sub-phases occur in interphase? What occurs in each of those sub-phases?

What is apoptosis and how does it occur?

What is the role of p53 in the cell cycle?

What are the various levels of structure in chromosomes? What structures are involved?

In what forms is DNA accessible/inaccessible to transcription?

What are sister chromatids and when are they made and split?

What do diploid and haploid mean? How does this apply to humans?

What is the role of centrosomes in mitosis?

What are the 5 phases of mitosis and what happens in each?

How does cytokinesis differ in plant and animal cells?

What is the purpose of mitosis?

What is a tumor? What is the difference between benign and malignant tumors?

What are main characteristic of cancer cells?

What kinds of genes are involved in the development of cancer? What do they do and how do they change?

What are telomeres and what is their role in cell longevity?

Through what process do prokaryotes replicate?