

biology

by Kkkkkk Kkkkkk

Submission date: 02-Jul-2021 01:54PM (UTC-0400)

Submission ID: 1615018790

File name: Course_reflection.docx (13.17K)

Word count: 389

Character count: 1987

Course reflection

It was interesting to learn about how a cell builds, energy and enzymes, cell cycle and genetics and molecular biology. These topics were very educating as they helped me know how our bodies function. I have learned that my body is made up of building blocks called cells. The cells are in trillions and all perform specific functions. These cells provide structure for the body and contain functional structures called organelles. When they group together, they form tissues. Some of the important tasks performed by cells include making proteins and processing chemicals. The cell contains macromolecular components. These include proteins, lipids, glycans and nucleic acids.

The other area that was informative throughout the course is energy and enzymes. It was fascinating to know the relationship between energy and enzymes. Enzymes speed up a reaction by lowering activation energy and vice versa. Enzymes are catalysts that can lower the activation energy of a chemical reaction. They do so by reducing the energy required for reactants to combine and react. These biological catalysts can produce energy such as chemical and potential energy.

I also learned about the four-stage process of the cell cycle. The processes are Gap 1, Gap 2, synthesis, and mitosis. These are the four stages that a cell undergoes as it grows and divides. At the end of the cycle, the cell divides into two identical cells (mitosis). The mitosis stage particularly caught my attention. In this process, a single cell divides into two similar daughter cells. This division is what causes growth in our bodies and leads to replacement of worn out cells. Mitosis is what leads to genetics because the cell contains the DNA. DNA replicated in the second stage of cell cycle where each of the 46 chromosomes is replicated. Molecular biology is concerned by the function of proteins and how genes are expressed in cells.

From the topics covered, we can apply these concepts to impact the world in various ways. The study of genetics and molecular biology can pave way for major medical researches which can help in healing certain diseases. The inventions and discoveries in medicine are also crucial in the health of human beings. In a world where new diseases emerge every time, geneticists and molecular biologists have a big role in coming up with cures of such diseases.

biology

ORIGINALITY REPORT

0%

SIMILARITY INDEX

0%

INTERNET SOURCES

0%

PUBLICATIONS

0%

STUDENT PAPERS

PRIMARY SOURCES

Exclude quotes On

Exclude bibliography On

Exclude matches Off