

Place of Biochemistry in the Collegiate and qualifying Secondary education in Morocco

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Abstract

The teaching of Life Sciences and Earth (LSE) has many twists and turns:

- Changing the nomination (Natural Science in Life Sciences and Earth)
- Arabization of programs
- Shift from a unique scholastic textbook to several textbooks with different approaches related to the application of the official programs of the LSE.

These changes have affected both the secondary school (Collegiate and qualifying school) and the education provided by the training centers (CPR, ENS).

The analysis of official programs and scholastic textbooks conceived for collegiate and qualifying education, allow us to list some biochemical concepts.

The following examples can be cited:

- Concept of flow of matter and energy within an ecosystem
- Cycle of matter and energy flows to explain photosynthesis in the production of organic matter.
- Consumption of organic matter and energy transformations during the process of nutrition.
- Transformation of energy in the striated muscle
- The organic material, construction and renewal of living matter (protein biosynthesis, nitrogen cycling, sexually transmitted disease ...)

This study revealed that the biochemistry is not an independent subject in itself. More biochemical concepts only a minority position in the curriculum for training students.

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