

The evolution of Biochemistry Education System in Moroccan University

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Abstract

One of the most fascinating aspects of biochemistry is that it has linked organ metabolism directly with molecular biology. Biochemistry is able to achieve an integrated understanding of the metabolism at the level of cells, organs, and the whole body. Since the launching of Moroccan University system, Biochemistry had its method of teaching initiated through information database learning, and research methods introduced for modern and effective education.

Today, Moroccan universities are using new technologies to prepare students at undergraduate level for better understanding of the biochemistry world giving them the opportunity to grasp the benefit that this since can bring to both agro industry and pharmaceutical/drug industry. It's fact today that the Moroccan university has achieved its goal incorporating updated information research system in its teaching methods. This has led to

The major goals of the Biochemistry education is to achieve a better understanding of the fundamental concepts in biology and chemistry, especially those concepts that show the unity within the diversity of form and function, from molecules to organisms. Also, to enhance discovery of new relationships in the analyzed data for creating new concepts, or supporting or rejecting existing hypotheses, or discovering new drugs from natural products.

To assess the situation of Biochemistry education at Moroccan University, it is important to clearly state the requirements of teaching. As observed, there is wider and deeper teaching of biochemistry and general molecular biology during the initial part of the curriculum. Combination of traditional lectures and paper analysis seems to work best and students seem to be more interested in application of genomic tools to physiological and medical problems than in "hard-core" molecular biology.

Biochemistry masters (MS) and PhD degree programs provide a good foundation for those interested in becoming doctors or pursuing medical research. Some graduate biochemistry programs concentrate in biotechnology or applied Biochemistry in agro-industry. Graduates can become biomedical engineers, immunologists, biochemists and more.

Finally, to improve the programs of biochemistry for the next years, it should include more laboratory experimental design and preparation and teaching assistant experience and the literature of chemical education. All these aspects will be discussed during the Education day workshop.

Keywords: Biochemistry, education, Morocco, universities