**IMPORTANCE OF BIOTECHNOLOGY AND NATURE AWARENESS IN EDUCATION**

**ABSTRACT**

The growth of technologic improvements in producing, using and transferring of scientific information created innovations in biological science. Especially after the improvements in biotechnology area, biology became inseparable part of our daily life which required more changes in biological education. More development caused more crucial effects to human body and led people to learn about biology in a more complex way. Starting from primary school to the end of the college, students learned about the science of life in various ways and prevent the results caused by insufficient information. For example, unhealthy eating would not be a problem for a society who are aware of biology and agriculture. Development of biology effected agriculture in a mostly negative way. Because of the usage of chemical fertilizers, human body faced with side effects of chemical materials and diseases. Therefore, using natural fertilizers and resources is an efficient way to prevent the negative effects of artificial fertilizers.

**Keywords:** Fertilizers, Biotechnology, Biological education, Scientific information, Agriculture.

**INTRODUCTION**

In the past decades, the evolution of computer and Internet technologies has impacted activities in the science. These growing trends of technology also influence teaching and learning of science with an attempt of promoting practices in the science classroom. Empirical studies have shown some encouraging results regarding the impact of technologies on affective and cognitive outcomes in different subject areas of science. (Wen-Yu Lee, Ching-Chung Tsai, 2012)

As it is known, in order to transfer biological information to students in an effective way it is necessary to benefit from the developing technology and biotechnology. While the using of newly developed materials have rose in education there are also various risks for students. Advanced technology increased the number of chemical materials used in biology which creates insufficient use of biological necessities in education. There are plenty of researches done by various communities about indoor chemical usage effects on children.

“Most research into effects of residential exposures on respiratory health has focused on allergens, moisture/mold, endotoxin, or combustion products. A growing body of research from outside the U.S., however, has associated chemical emissions from common indoor materials with risk of asthma, allergies, and pulmonary infections.” (J. Mendell,2007).

Most of the researches shows the negative outcomes of using chemical materials indoor. Analyzing the data given by different researches, we have decided that using chemical materials is not the right way to teach biology in schools.

**OFFERING A FRAMEWORK: Replacing Chemical Materials with Natural Sources**

Against the risks of chemicals, we would like to offer a framework for a discussion. In order to minimalize the indoor chemical usage, it is a necessity to use organic materials such as natural fertilizer instead of chemical fertilizers. Not only in educational area but also the agricultural area is affected by the toxicity of chemical usage in fertilizers. Using of the natural fertilizers which can be created by students are appropriate for indoor studies.

**CONCLUSION**

We thought about the negative outcomes of chemical materials for students and decided that the usage of natural materials such as fertilizers decrease the risk of getting effected by toxic substance and reduce the diseases and side effects.

**REFERENCES**

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