GMO and it is impacts on nature and the wellbeing of humanity.

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# Introduction

G.M.O is short form of genetically modified organism, food or living beings had their DNA code been altered upon birth or while they were growing. And by taking a genetic code from one and adding the traits from it to another plants and mix it all together in the seed or in a chemical to spray it as it grows. The public opinion about G.M.O differ from one to group to another, but there been studies to prove what is the impacts of growing genetically modified crops on the environment and what are the benefits that the food been engineered for.

# Environmental impacts of G.M.O

First, all kind of crops grow differently from one kind to another, but by genetically enhance the crops agricultural scientists managed to decrease the amount of time and the requirements for an organism to grow. These actions could be beneficial but, also by altering the nature of the organism may not affect the surrounding positively. According to *(P. Carvalho, 2006*) the environment impacts are caused by the continuous use of agrochemicals, which is to fight pests that keep developing an immunity to the chemicals and pesticides. And even though several continents banned the uses of cheap agrochemicals such as the EU. The countries that are not under the banning law or those who suffer economically still pay money to get the dangerous cheap chemicals to make profit, either for their selves or also for their families.

The issue considered to be major, but there are several studies shown the possibility of producing a healthy and environment friendly genetically modified products (A.M. Mannion, S. Morse, 2012). The main issue is not the genetically modified food itself, but more of the methods it being undertaken to produce it. According to (*B. EmanaH. GebremedhinN. Regassa, 2010)* that it is expected from farmers to be able to produce a harvest pests-free, the farmers cannot apply any sensitive chemicals without a clear advice from a professional. The misuse of agrochemicals and pesticides to grow a G.M.O crops has led to the death of an enormous number of the natural life around the globe, of both human and animals alike. And according to the survey been done by (*B. EmanaH. GebremedhinN. Regassa, 2010)* that 71% of these chemicals are hazardous, and on the contrary 29% are poison-free and safe to be used.

# Health impacts of G.M.O

Genetically modified food is infamous for the high possibility of being infected by one of it side effects, such as, gaining allergic reaction to different kinds of fruits, vegetables or any kind genetically engineered organism. According to a Superior of Biotechnology at University of Cattolica in Portuguese (Mr. Diels, J. and four other faculty in the field), first time the has been known to the world was in around the year 1994, many business groups and farmers saw it as an opportunity for easy money, but in reality it caused a huge economic crisis for many countries, due to the fact that the sellers did not care ensured the safety of their products before selling it. Many hospitals have suffered in the first few years with G.M.O patients. After a while according to European Food Safety Agency (EFSA) has started a process so that GM crops would be under the safety evaluation and not to let any products that contain any toxic or over certain amount of chemicals to be bought or consumed by anyone.

Even with many institutions looking after the process of the safety of the GM crops there is still many flaws with GMO production. The reason of many late studies is that they lacked the knowledge and studies about toxicology until late 2000 ([Domingo, 2000; Domingo and Gómez, 2000](https://www.sciencedirect.com/science/article/pii/S0278691516301934" \l "bib9)). According to (J.L. Domingo 2007) a professor at Rovira i Virgili University in Portuguese made a list of “keys” which been expanded to 12 key which are: genetically modified foods, GM foods, transgenic foods, toxicity of transgenic foods, health risks of transgenic foods, adverse effects of genetically modified foods, toxicity of genetically modified foods, health risks of GM foods, health risks of genetically modified foods, toxicity of GM foods, adverse effects of GM foods, and adverse effects of transgenic foods. After all the studies by many there were still needed to be more solid and honest evidence to trust, because with each experiment the chemicals get changed, the plants and the animals develop an immunity or a reaction toward the new agrochemicals which was dangerous toward human and other living organisms.

# The cause for most of the impacts

The health impacts and environmental impacts both share a common reason behind most their risks, and that is pesticides, pesticides are needed to get rid of pets, control weed and many other usages. thr

# Conclusion

Overall the experiments and impacts of GMO crops still goes in current time, and GM crops despite being a debatable topic to discuss it been proved that there is both positive and negative facts to the argument. The negative side is the pesticides and agrochemicals that still being used, despite being banned around many countries around the globe. Those who still uses it are farmers who do not have access to any safe to use chemicals and under the need for money, and there are those disrespectful corporations who only ill intuition is money and fame in prices for all living souls who live close by their farms or the consumers who get ill by consuming their products. The positive facts that would justify GM food is that it enabled many continents to be able to fell the daily need of food for their people and produce even more to share to those in developing countries who suffered from poverty and hunger, and as an example of a safe and useful product is the golden rice which is a name given to genetically modified rice that produces β-carotene and vitamin A (Al-Babili, S. and Beyer, P., 2005).