

**Presentation on  
the topic of:**



# ***Genetically modified foods - for and against***



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# The reason for the creation of genetically modified foods

Now the world has a population of approximately 7 billion people. One of the main problems facing humanity is a lack of food. Even now, with 7 billion population, the inhabitants of some regions are starving. In connection with this, in agriculture implemented the most productive biotechnology. One of such technologies is genetic engineering, with the help of which are created genetically modified foods.



**Genetic engineering** gives an opportunity to overcome interspecific barrier and transfer signs of some organisms others, carrying out such changes in the genome that are unlikely to could arise in a natural way. Roughly speaking, gene engineers do something that is always prohibited nature. Take, for example, a gene from a fish and put it in a tomato. But not in order to tomato sailed, and that it can be stored at low temperature. Transfer of genes between species different species called horizontal (lateral).



# Recombinant DNA technology

A DNA molecule, assembled from pieces of DNA of various organisms, is called recombinant. Obtaining of recombinant DNA in the quantity necessary for conducting genetic modification, allows you to move to the transformation of the plant cells. Due to the fact that many of the cells of plants totipotency (totipotency the ability of the cells by dividing give the beginning of any cell type of the body.) that is, of any plant cells can grow whole fruit-bearing the plant, obtaining of transgenic plants of the transformed cells presents no difficulties.



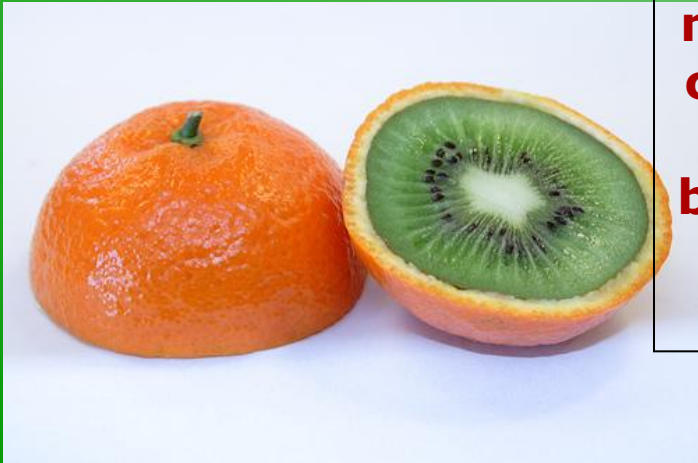
# Genetically modified foods: for and against

## For:

Genetically modified foods are more resistant to all kinds of viruses and bacteria. They have longer shelf.

Previously, farmers have used tons of chemicals, to save harvest, now they can save money. In addition, the data products can be sustainable and to cold, and the heat, and salted soil them uneasy.

The purpose of the genetic technology applied to the animals, " this usually the acceleration and the increase in their growth ".



**If genetic manipulation is being carried out under the control of official bodies, such products can be considered completely safe.**



# Against:

If you put aside the ethical issues in the production of these products, which are created by God, the rivals are the same.



effect.



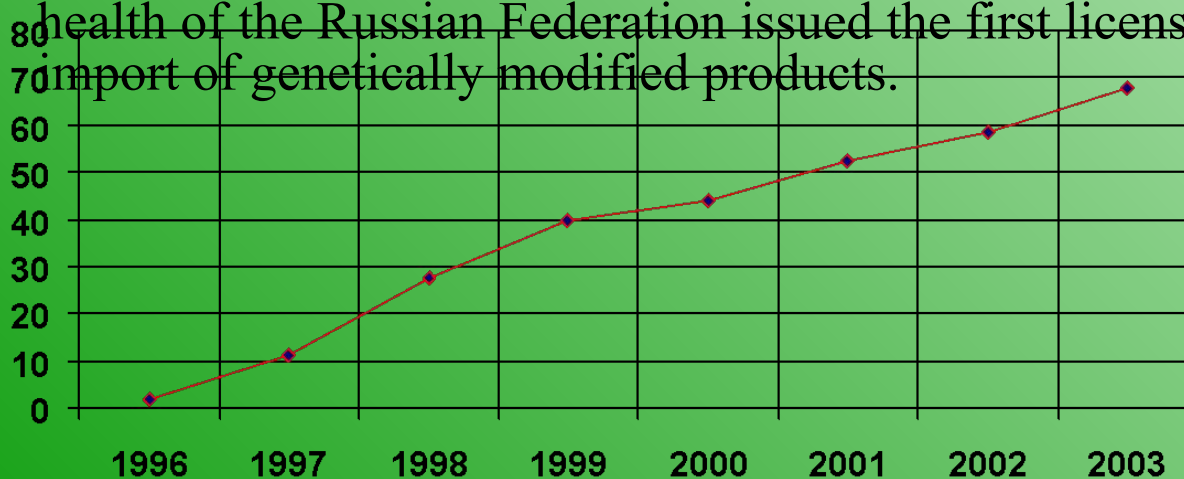
Ecologists of the assumption of the a variety of complications.

And no serious results in the fight against... with the help of modified products has not been achieved.

**Public opinion is configured as a whole against the modified products. Under the pressure of public organizations of some States have adopted laws on the cessation of research in this region.**

# The prevalence of the production of GMO food

The United States never had restrictions, modified products sold there along with the ordinary. Now the same occurs in New Zealand, and Australia. In Europe seriously think about cancellation of mandatory labeling. Since 1996, in Russia there is a law that regulates the activities in the field of genetic engineering. According to this the document, the import of products containing genetically modified components, should be certified and tests on the security of the Russian scientific institutes. After this they can be introduced in a wide consumption. According to the law, in the summer of 1999 the Ministry of health of the Russian Federation issued the first license to import of genetically modified products.



# Harmful if health genetically modified foods?

A clear answer to this question cannot be. While the consequences of the consumption of food products with genetically modified products are not known. According to leading experts, if a man eat of the sausage with transgenes one time, nothing could happen to him. However, we eat every day. Experts believe that after many years of genetically modified protein reaches in the body of dangerous concentrations.



The main source of danger is the imperfection of the technology of obtaining of transgenic organisms. In spite of the fact that genetic engineering is a high modern and rather well-developed science, with the creation of GMO scientists still are blind. Inserting a gene fragment, they don't exactly know in what portion of the genome he gets, and how it will affect his work. The transformed cell acquires an absolutely new, non-relevant properties.



# Genetically modified foods can be the cause of Allergy

- According to doctors, in recent time the number of applicants with allergies reaches 20-30 per cent, while another five years ago - there were four to five times less. The reason is the increased consumption of various food additives, which often contains amino acids, produced by genetically-modified bacteria

It is obvious, that to genetically modified products should not be taken lightly. At least, we, as consumers, need to be informed about what we eat. We should be able to select. And, most importantly, we must understand not only what we eat ourselves, but that we give our children, for that genetically modified products are included in the structure of baby food too



# Conclusion

Not worth it to bring the situation to an absurdity and sign themselves and children to starve to death. Take a look truth in the eyes - absolutely

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A close-up photograph of a carved jack-o'-lantern. The pumpkin's face is illuminated from within, showing a glowing orange light. The carving features a wide, toothy grin and a single eye. The jack-o'-lantern is surrounded by autumn-themed decorations, including green and yellow leaves and other pumpkins. The background is dark, making the glowing pumpkin stand out.

Thank you for your attention