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## **СТАРТ В НАУКУ**

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## CULTURED ANIMAL SOURCE FOOD

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Cultured animal source food is the food produced in the laboratory. These products have never been part of a living, full- fledged animal. My work focuses on cultured meat, milk and eggs. The purpose of this work is to show the advantages of cultured animal source food over its usual analogues.

Originally, NASA's cultivated meat research was intended for use in long-term space flights, where it could be a stable source of nutrition. Additionally, it can be used for surviving in extreme conditions, where there is a lack of food, for example, in Antarctica.

Now, cultured animal source food can be more practical than original animal products. For instance, it can reduce hunger in many countries, because raising animals needs large territories, a lot of water and other resources. But even with these conditions, it is not possible to produce enough food to feed the entire population of the planet.

The manufacturing of animal products in the traditional way releases a lot of by-products into the environment, which is harmful to the ecological situation. On the contrary, there are no such problems with cultivated products.

Cultured animal source food is more «pure». These eggs are guaranteed not to have salmonellosis, milk does not need to be pasteurized, and meat does not contain *Escherichia coli* or growth hormones.

Unfortunately, cultured animal source food is not yet available on the wide market. At the moment it is still more expensive than the products of animal origin. But thanks to ongoing research, the cost of such products is gradually decreasing, and soon the cultured animal source food will be able to compete in the market. Another factor that prevents products from entering the market is the public's distrust of cultivated products.

The projects for the production of cultivated products are promising and actively sponsored. It is planned to enter a wide market in the near future.

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