

## The cheaper anticancer liposome strategy

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### Abstract

Tumor is one of the most wide-spread diseases across the planet, and along with this - the first in a row of the working-age population death causes. The pathogenesis of uncontrolled tissue growth and malignancy is still unexplored, making the tumor one of the most difficult, if not curable, diseases to treat. Tumor treatment today is carried out by extremely undesirable methods, the leading role among which belongs to chemo- and radiation therapy, the result of which is always inevitable - death. In this regard, there is an urgent need to find medicines that can save the lives hundreds of thousands of people without causing tangible harm to the body. Such drugs can be liposomes, which have long attracted the attention of scientists in the framework of the neoplasia treatment, but still remain at the research stage due to the high cost and complexity of industrial production. Using the data accumulated to date on liposomes and their invasiveness in tumor tissue, we propose our own version of liposome production, which, due to its relatively low toxicity and ease of manufacture, has more chances of being introduced into widespread medical practice: these are liposomes based on the liquid phase from Chaga fungus and the lipid phase with natural peptides relatively easily extracted from plants and microorganisms.

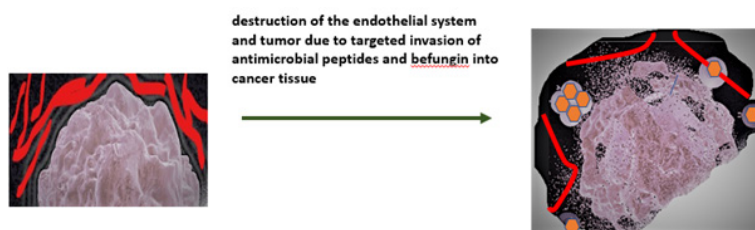


Fig.1. Cancer treatment with liposomes: targeted action leads to the destruction of the tumor vasculature and the malignant site itself

### Biography

Amirova has many years of experience in the field of biochemistry, both as an educator, consultant, and in the most diverse facets of research in medicine. Her broad knowledge allows her to express the most unexpected, sometimes very courageous in the most diverse fields of science. Now Dr. Amirova is focusing on a project to develop new liposomes, which, due to their bio- and economic availability, would make it possible to heal thousands of patients from cancer, possibly even at the stage of metastasis. But these projects are still at an early stage.

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