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The paper presents data on medicinal plants with bactericidal action, their biological role and biologically active substances included in their composition.

Keywords: medicinal plants, bactericidal activity in medicinal plants, chemical composition of plants, flavonoids, tannins, essential oils, alkaloids, vitamins.

Recently, interest in medicinal plants has resumed. The pharmaceutical industry creates a large number of chemicals. On the one hand, they act quickly and accurately, and, on the other hand, many of them are toxic and are not able to restore the disturbed functions of some organs without a negative impact on others.

The most effective substitute for chemicals is herbal medicine, which includes the use of medicinal plants. The potential of herbal medicine is very great, because almost every plant has a wide range of medicinal properties.

Purpose is to study and analyze scientific data on bactericidal properties of medicinal plants.

No matter how effective drugs of chemical origin, medicines from plant raw materials for the treatment of certain diseases are indispensable. The main advantage of herbal preparations is that they impact the human body gently almost without causing side effects.

Medicinal properties of substances are included in the composition of medicinal plants. These substances when entering the human body determine a particular physiological effect.

Biologically active substances have a diverse composition and belong to different classes of chemical compounds. Among the main biologically active substances of medicinal plants are:

1. Flavonoids are a group of compounds through which the activity of plants is evaluated;
1. Tannins with bactericidal and fungicidal properties;
2. Essential oils, which are part of medicinal plants and have antimicrobial and antiviral action;
3. Alkaloids;
4. Vitamins.

Biologically active substances create the so-called pharmacological face of medicinal plants.

In conclusion, many medicinal plants due to the presence in its composition of biologically active substances have strong antimicrobial properties, but herbal remedies have a number of effects, such as anti-inflammatory, immunostimulatory and antihypoxic, facilitating the patient's condition and contributing to a faster recovery.

BIBLIOGRAPHY

1. *Георгиевский, В. П.* Биологически активные вещества лекарственных растений / В. П. Георгиевский, Н. Ф. Комиссаренко, С. Е. Дмитрук. – Новосибирск: Наука. Сиб. Отд-ние, 1990. – 333
2. *Коноплева, М. М.* Фармакогнозия: природные биологически активные вещества: учеб. пособие / М. М. Коноплева. — Витебск: ВГМУ, 2006. – 267 с.

DNA VACCINES: MECHANISM OF ACTION, PERSPECTIVES OF USING

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DNA vaccines using is promising for the treatment of cancer and autoimmune diseases. DNA vaccine is able to induce cellular and humoral immune response. DNA vaccines are characterized by selectivity, no risk of virulence reversion, high stability. Their use is safe, has no side effects. In the environmental aspect their production does not have a detrimental impact on the environment.

Keywords: DNA vaccine, DNA vaccines action, oncological diseases, autoimmune diseases.

The growth of incidence of autoimmune and oncological diseases is associated with the impact of environmental factors. One of the promising areas of therapy is the use of DNA vaccines.