



Лекарственные виды растений

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Medicinal Plants

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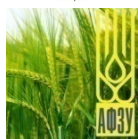
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Textbook presents the results of research and educational institutions and experts involved in the international network **AgroBioNet** oriented for the realization of international research, education and development program entitled "Agrobiodiversity for improving nutrition, health, and life quality" which solves the problems of preservation, assessment and use of traditional, less known, less-used and forgotten kinds of plants.

In this textbook are also presented results from the solution of research projects that are supported by the Operational Programme Research and Development of the European Regional Development Fund:

AgroBioTech ITMS 26220220180 Building Research Centre

TRIVE ITMS 26110230085 Development of International Cooperation for Purpose of the Transfer and Implementation of Research and Development in Educational Programs

ITEBIO ITMS 26220220115 Support of technologies innovation for special bio-food products for human healthy nutrition

BioFood ITMS 26220220115

RESUME

Elena Palamarchuk, Liudmyla Svidenko, Olena Vergun **Medicinal Plants**

One of the most famous and popular groups of plants is a medicinal that have been used from since ancient times. They play important role in the human life as source of valuable biologically active compounds and they are raw for using in traditional, folk and veterinary medicine. Because of development of pharmacological industry, now a day many of medicinal plants have a status neglected or less-used plants. Modern medicine offers to use preparations made from chemical unnatural compounds. Excessive intake of chemical preparation can influence negative on human or animal organism. It is known fact that use of natural compounds from medicinal plants has longer action on body, but negative effect less comparing with chemical preparations. In this connection, knowledge about natural sources of different groups of compounds are important for improving quality of life without damage. Plant raw material of medicinal plants is rich of antioxidants, compounds of phenolic nature (phenolic acids, polyphenols, flavonoids etc.), vitamins (ascorbic acid, β -carotene, thiamin, vitamin E, D etc.), alkaloids, polysaccharides, essential oils (with specific individual components), lipids, amino acids, glycosides etc. Water and alcoholic extracts of medicinal plants can evince different positive effects such as antimicrobial, antifungal, antispasmodic, anesthetic, anti-inflammatory, antioxidant etc.

Preparation and uses of various combinations of medicinal plants (for example, teas) have positive effect on organism. They can also use as resource for honey production, as aromatic, decorative or even food plants. However, some of them should be used with careful.

In the present book there is a description of 33 forgotten, less known and less-used medicinal species, which namely: *Achillea millefolium* L., *Aerva lanata* (L.) Juss., *Althaea officinalis* L., *Ammi visnaga* (L.) Lam., *Artemisia absinthium* L., *Artemisia dracunculus* L., *Artemisia vulgaris* L., *Astragalus dasyanthus* Pall., *Bidens tripartita* L., *Digitalis lanata* Ehrh., *Echinacea purpurea* (L.) Moench, *Galega officinalis* L., *Glaucium flavum* Crantz., *Glycyrrhiza glabra* L., *Helichrysum arenarium* (L.) Moench, *Hyssopus ambiguus* (Trautv.) Iljin ex Prohorov & Lebel, *Inula helenium* L., *Leonurus quinquelobatus* Gilib., *Nepeta grandiflora* M. Bieb., *Ononis aragonensis* Asso, *Plantago major* L., *Plantago psyllium* L., *Rhodiola rhodantha* (A.Gray) H.Jacobsen, *Rubia tinctorum* L., *Sanguisorba officinalis* L., *Scutellaria baicalensis* Georgi., *Silybum marianum* (L.) Gaertn., *Stachys germanica* L., *Symphytum asperum* Lepech., *Symphytum caucasicum* M.Bieb., *Symphytum officinale* L., *Thymus serpyllum* L., *Valeriana officinalis* L.

The purpose of the publication is to collect and systematize data about selected plants and offer obtained information to all groups of farmers for the cultivation, distribution and uses these plants for the preparing products that can improve human health and life. Many species can also be used in organic farming. Proposed information contains morphological describing of plants, agricultural characters, use in the folk and modern medicine, chemical content of plant raw material, and additive biological characters and possibilities of other using.

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