



SYSTEMATIC ANALYSIS OF MEDICINAL PLANTS

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Abstract. In this article, the requirements for the study of medicinal plants and the systematic analysis of medicinal plants are covered. can be obtained.

Basic concepts. Chenopodiaceae, pharmacological, Asteraceae, glycosides, amygdalin, thioglycosides

INTRODUCTION. Requirements for the study of medicinal plants. There are 10-12 thousand species of medicinal plants on earth. The chemical, pharmacological and medicinal properties of more than 1000 plant species have been investigated. There are 577 species of medicinal plants in Uzbekistan, of which 250 species are currently used in scientific medicine. More than 300 species of medicinal plants have been identified in the southern regions of Uzbekistan. These medicinal species belong to different families and show anatomical and morphological characteristics related to the family.

The main part. If you know the characteristics and representatives of each family, it will be easy to recognize the species. Studying the importance of each species helps to distinguish medicinal plants. Based on this, a number of requirements are set for the study of medicinal plants.

577 species of 4230 wild and cultivated plants belonging to 146 families recorded in "Flora of Uzbekistan" are medicinal plants. These medicinal plants are representatives of different families. We will give brief information about it.

Essential oils are widespread in the plant world. According to collected data, more than 2,500 types of plants in the flora of the globe contain essential oil. More than 1050 plant species belonging to 77 families grow in Europe. Especially Lamiaceae - labiatae, Apiaceae - celery (Umbeiliferae), Asteraceae - aster (Compositae), Chenopodiaceae, Cupressaceae - juniper, Myrtaceae, Rutaceae, Plants belonging to Rosaceae and other families are rich in essential oil.

Alkaloids are widespread in the plant world. According to the data of 1974, 140 out of 327 families of higher plants distributed on the earth (40%) contain alkaloids.



The genera containing alkaloids make up 8.7% (926 out of 10,615 genera) of plant genera growing on the globe, and about 2% of the species. Representatives of the following families are rich in alkaloids: from monocots - Liliaceae and Amaryllidaceae; from dicotyledonous plants: Arosunaceae, Ranunculaceae, Menispermaceae, Papaveraceae, Fabaceae, Buxaceae, Loganiaseae, Solanaceae, Chenopodiaceae, Asteraceae—Compositae, Berberidaceae, and Rubiaceae. During this period, 897 of the 4,959 alkaloids that were isolated and described all over the world belong to only one family of hemp plants (Apocynaceae).

RESEARCH RESULTS

Systematic analysis of medicinal plant species

T/r	Local name	Scientific name	Life form	Distribution zone	Importance
Compositae is a family of compositae					
1	A tall, headache-inducing herb	<i>Achillea millefolium</i>	Many years	Hill, mountain, meadow	Medicinal
2	The starter	<i>Achillea filipendulina</i>	Many years	hill, mountain	Medicinal
3	Ermon	<i>Artemisia absinthium</i>	Many years	Hill, mountain, meadow	Medicinal
4	Carnation	<i>Calendula officinalis</i>	One year	In irrigated lands	Scenic, medicinal
5	Mahsar	<i>Carthamus tinctorius</i>	One year	In irrigated lands	Essential oil, medicinal
6	Sakhratki	<i>Cichorium intybus</i>	Many years	hill, mountain	Medicinal
7	Pachtatikon, lattatikon	<i>Cirsium ochrolepidium</i>	Many years	meadow	Medicinal
8	Asparagus	<i>Cnicus benedictus</i>	One year	hill	Medicinal
9	Boznoch	<i>Helichysum arenarium</i>	Many years	hill, mountain	Medicinal
10	Andiz	<i>Inula grandis</i>	Many years	hill, mountain	Medicinal

Summary. Glycoside, essential oil, and alkaloid plants are also widespread in the plant world, and they are found dissolved in the tissues of all plant organs and cell sap. For example: Plants may contain several glycosides (one plant may contain



more than 20 individual glycosides). Sometimes one or a group of glycosides with the same chemical structure are characteristic of a whole family, and they are widely distributed in the species belonging to this family (for example, amygdalin glycosides are in the cruciferous family, and thioglycosides are in the species of the cruciferous family).

In the table above, we have provided information about some medicinal species belonging to some families that are important for medicine found in Central Asian vegetation.

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