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Terpenes, Coumarins, Steroids, Flavonoids and Flavonoid Glycosides from species *Pulicaria* and their biological activity

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Medicinal plants are an important component of plant communities. Their study has a significant scientific and practical importance, related to the conservation of their resources and their sustainable use. Plant of the family Asteraceae are widespread in nature and are rich sources of flavonoids, terpenoids and coumarin in the flora of Uzbekistan. Flavonoids, terpenoids and coumarins the class of natural compounds, which are characterized by structural diversity, and versatile high activity and low toxicity. From the plant family Asteraceae isolated natural compounds with cytotoxic, antioxidant, hypoglycemic, lipid-lowering, hepatoprotective, antibacterial and other types of activity. In Uzbekistan there are more than 596 species of plants from the family Asteraceae. Of these, only a few species studied. Therefore, the study of phenolic compounds and terpenoid plant family *Asteraceae* actually represents a certain theoretical interest, are of great scientific and fundamental. Learning new structure of flavonoids, coumarins and terpenoids will make some contribution to the chemistry of natural compounds, and will help address the problems associated with Chemotaxonomy and finding new physiologically active compounds. Plants of the species *Pulicaria* belong to family of Asteraceae, widely distributed in the flora Uzbekistan and used in the folk medicine. Study their chemical components and identify biological activity of current interest. We have studied four representatives of the species *Pulicaria*: *Pulicaria salviifolia*, *Pulicaria gnaphalodes* and *Pulicaria uliginosa*. Aerial parts these plants we have isolated a new and known compounds in relation to terpenoids, coumarins, flavonoids, sterols, phenols and studied their biological activity. The isolated compounds showed highly hypoglycemic, hypolipidemic, vitiligo, anti-cancer, hinotropic, antihypertensive, anticoagulants and spasmolytic effects.

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