

MINISTRY OF PUBLIC HEALTH OF UKRAINE  
NATIONAL UNIVERSITY OF PHARMACY

**TOPICAL ISSUES OF NEW  
DRUGS DEVELOPMENT**

Abstracts of XXV International Scientific  
And Practical Conference  
Of Young Scientists And Student

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For a wide audience of scientists and pharmaceutical and medicinal employees.

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## SPECIFIC FEATURES OF MORPHOLOGICAL STRUCTURE OF A PUMPKIN FAMILY REPRESENTATIVE

Popp N. V.

Scientific supervisor: assist. Skrebtsova K. S.  
National University of Pharmacy, Kharkiv, Ukraine  
natck.popp@gmail.com

**Introduction.** The a search of new prospective sources of plant material with expressed pharmacological activity, their standardization and creation of effective medicines with a diverse therapeutic action is of great current interest for modern pharmacy. Medicines on herbal basis are low-toxic, have a small amount of side effects and various pharmacological activity towards human body.

Our attention was attracted by a representative of pumpkin family – cucumber (*Cucumis sativus* L.). Chemical composition of fresh cucumber is quite rich. This product is considered extremely useful for human body. Cucumber contains carotene and vitamins: U<sub>1</sub>; U<sub>2</sub>; B<sub>9</sub> (folic acid), C. The fruits are also rich in such microelements: ferrum; phosphorus; potassium and soduim; manganese; chlorine; chrome; copper; zinc; iodine; silver. There is high amount of cellulose in the fruit peel. Chemical composition of cucumber can strongly differ depending on the place of growing and soil. Nutrition value of fresh cucumber in 100 g: proteins – 0.8 g; fats – 0.1 g; carbohydrates – 2.5 gr.

**Aim of the research.** Determination of diagnostic features of morphological structure of cucumber (*Cucumis sativus* L.) raw material.

**Materials and methods.** Aerial part of *Cucumis sativus* L. was collected in the period of flowering, May-July 2017.

**Results obtained.** The size of stem of the plant is from 1 to 2 meters. Cucumber has special tendrils by means of which it attaches to earth or other support. Flowers are small, yellow. Usually immature green fruits are used for food. A mature fruit, as a rule, is large in size and has characteristic yellow color. The leaves of cucumber are simple long petioled, without stipules, roughly hairy.

The leaf blade is heart-shaped in form, has 3-5-blades, blades are sharp, unevenly toothed on an edge. Coloring of leaves is bright- and dark-green. The leaf blaed is 12-18 cm long and 15-22 cm wide. Length of petiole can reach from a 8, 7 cm to 22 cm

**Conclusions.** The obtained data will be used for further research on Pumpkin family representatives that are prospective plants for obtaining of new types of medicinal plant material of important activity.

## DETERMINATION OF PHENOLIC COMPOUNDS IN CITRUS FRUITS

Pratkelytė G.

Scientific supervisor: prof. Ivanauskas L.  
Lithuanian University of Health Sciences, Kaunas, Lithuania  
giedre.pratkelyte@fc.lsmuni.lt

**Introduction.** Citrus (*Citrus* L. from Rutaceae) is one of the most popular world fruit crops, contains active phytochemicals that can protect health. Citrus fruits are highly consumed worldwide as fresh juice produce and most often the peel is discarded as waste which contains a wide variety of secondary components with substantial antioxidant activity in comparison with other parts of the fruit. The object of the study were methanolic extracts of five species (*C.paradisi*, *C.sinensis*, *C.aurantiifolia*, *C.limon*, *C.reticulata*) of citrus fruits juice and peels.

**Aim.** To determine phenolic compounds and antioxidant activity in five difference species of citrus fruits (juice and peels).

**Materials and methods.** Extraction. Dried citrus fruit peels and juice were extracted with ethyl acetate. Peels extracts were mixtured by ultra - sonication and prepared extracts were centrifugated. This extraction procedure was repeated a three times with same sample respectively. Juice extract was prepared by transferring juice in to a cylindrical separatory funnel and adding ethyl acetate [2]. This extraction procedure was repeated a three times [2]. All extracts resulting organic layers were combined respectively and evaporated in in vacuo and dried material from round-bottom flask was resuspended with methanol [2].

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