



Inflorescence diversity forms, varieties *Sorghum saccharatum*

Seed diversity forms, varieties *Sorghum saccharatum*



Diversity forms varieties *Sorghum saccharatum*

Eleusine coracana (L.) Gaertn.,

cv. Jaroslav - 8



cv. Jevhenija

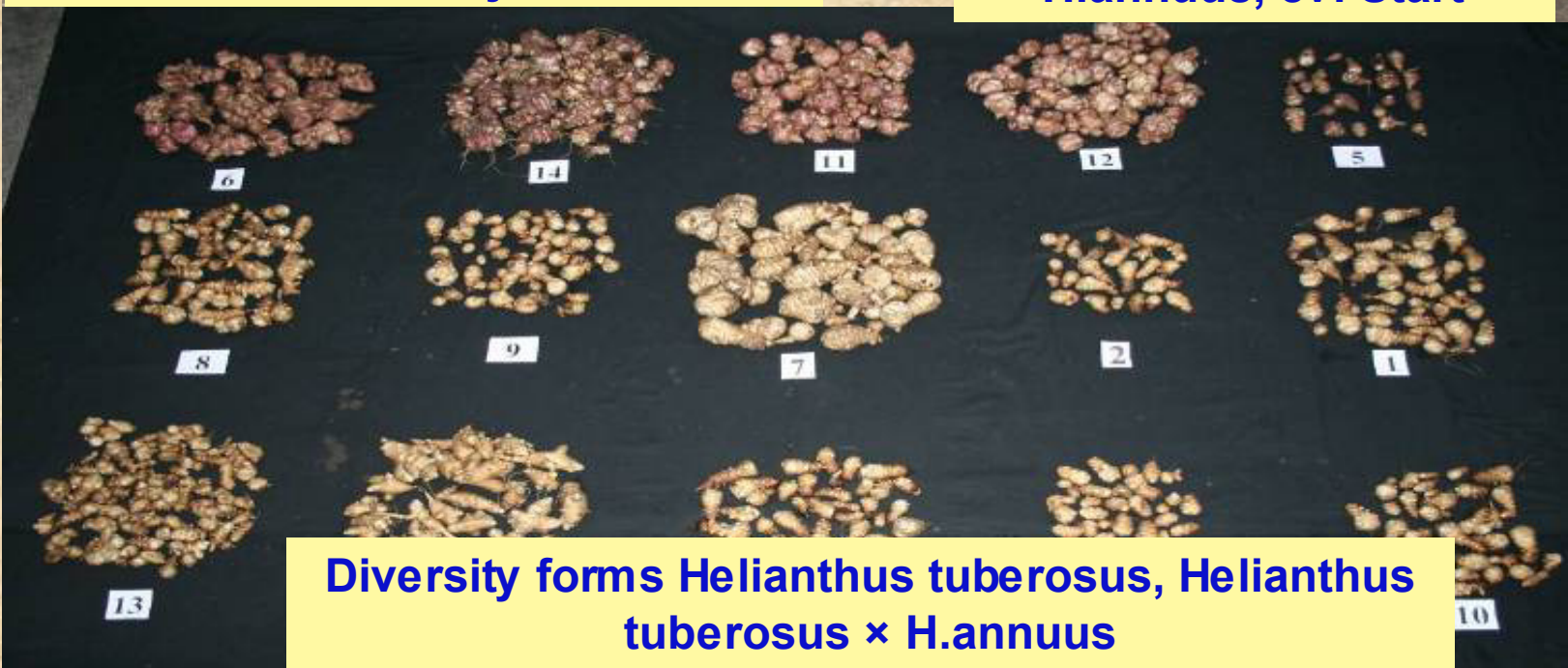




**Helianthus tuberosus,
cv. Nezalejnict**



**Helianthus tuberosus ×
H.annuus, cv. Start**



**Diversity forms Helianthus tuberosus, Helianthus
tuberosus × H.annuus**

In the NBG work continues on the new developments on selection and creation of high performance genotypes of energy plants - a potential source of bioethanol second generation *Miscanthus × giganteus*, *Miscanthus sacchariflorus*, *Miscanthus sinensis*, *Panicum virgatum*



**Variety
species
and forms of
miscanthus and millet
switch grass**



For the first time in Ukraine NBG has created three types of miscanthus that provide the highest energy efficiency of biofuel grasses: 19-30 t / ha dry matter yield, 75-113 Gcal / ha with an elevated energy supply, and a variety of millet switch grass - 15-22 t / ha; 61-92 Gcal / ha respectively.

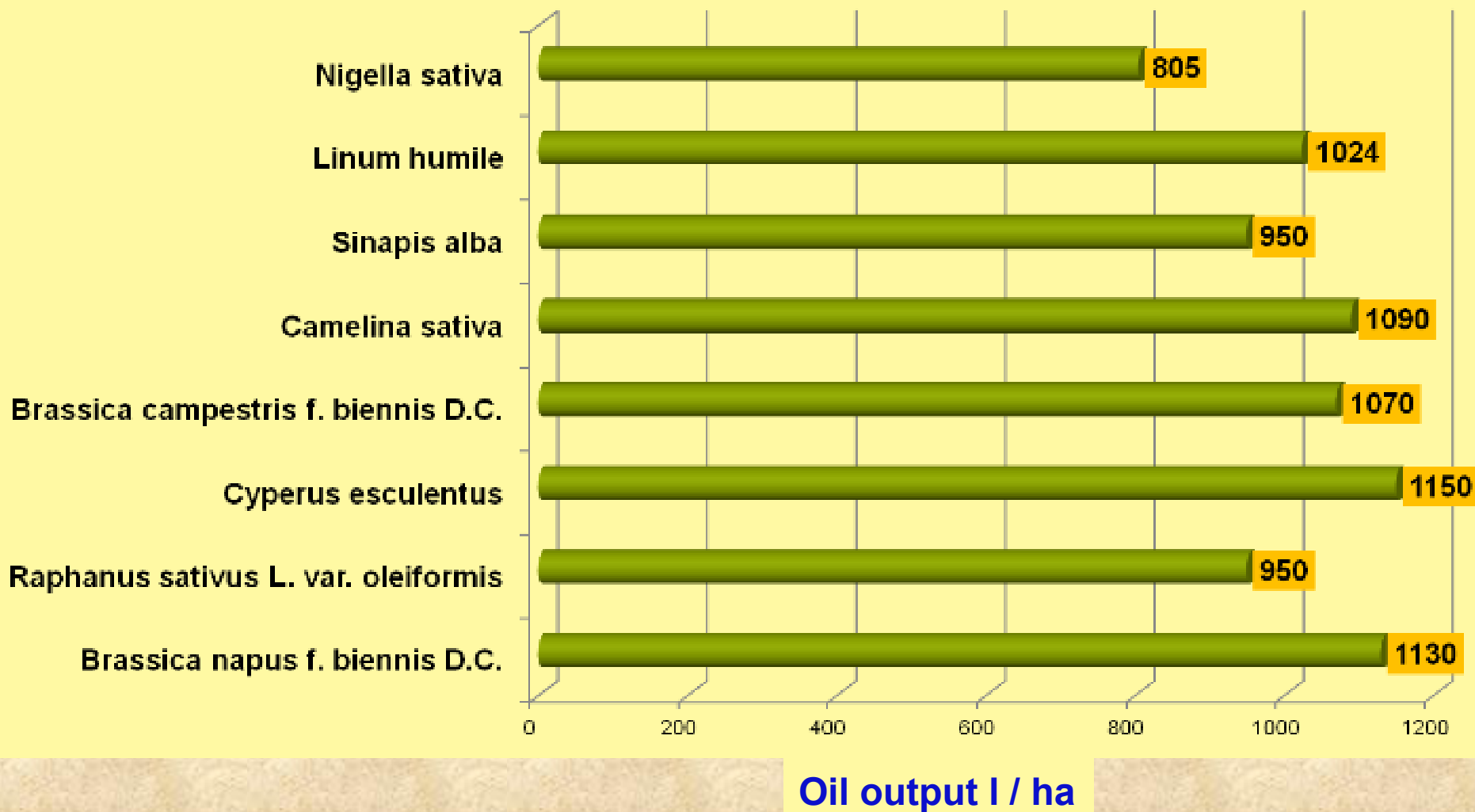


**Panicum virgatum,
cv. Zorjane**



**Miscanthus
sacchariflorus**

The estimated productivity potential of oilseeds as a feedstock for biodiesel



Cyperus esculentus



cv. Snigurskii

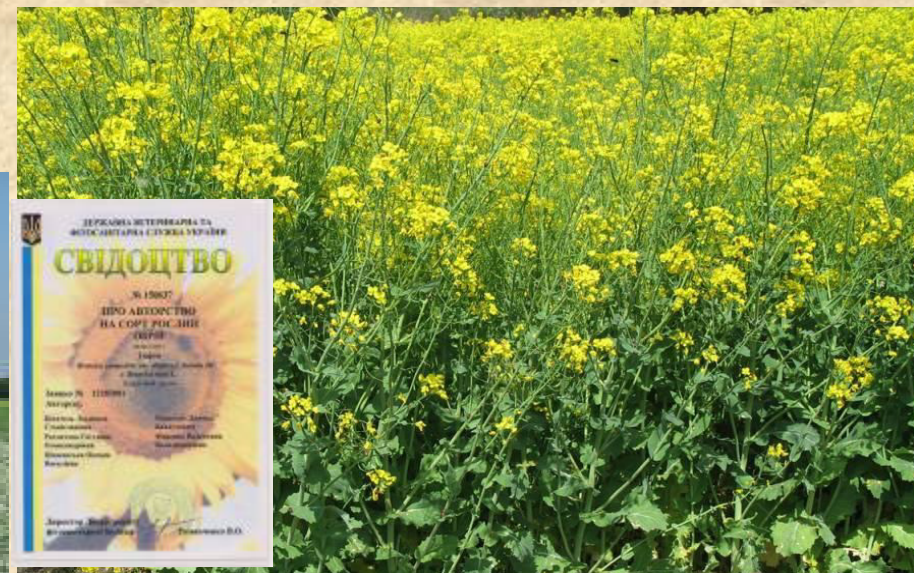


cv. Ingulskii



cv. Faraon

Raphanus sativus L. var. oleiformis, cv. Kianochka

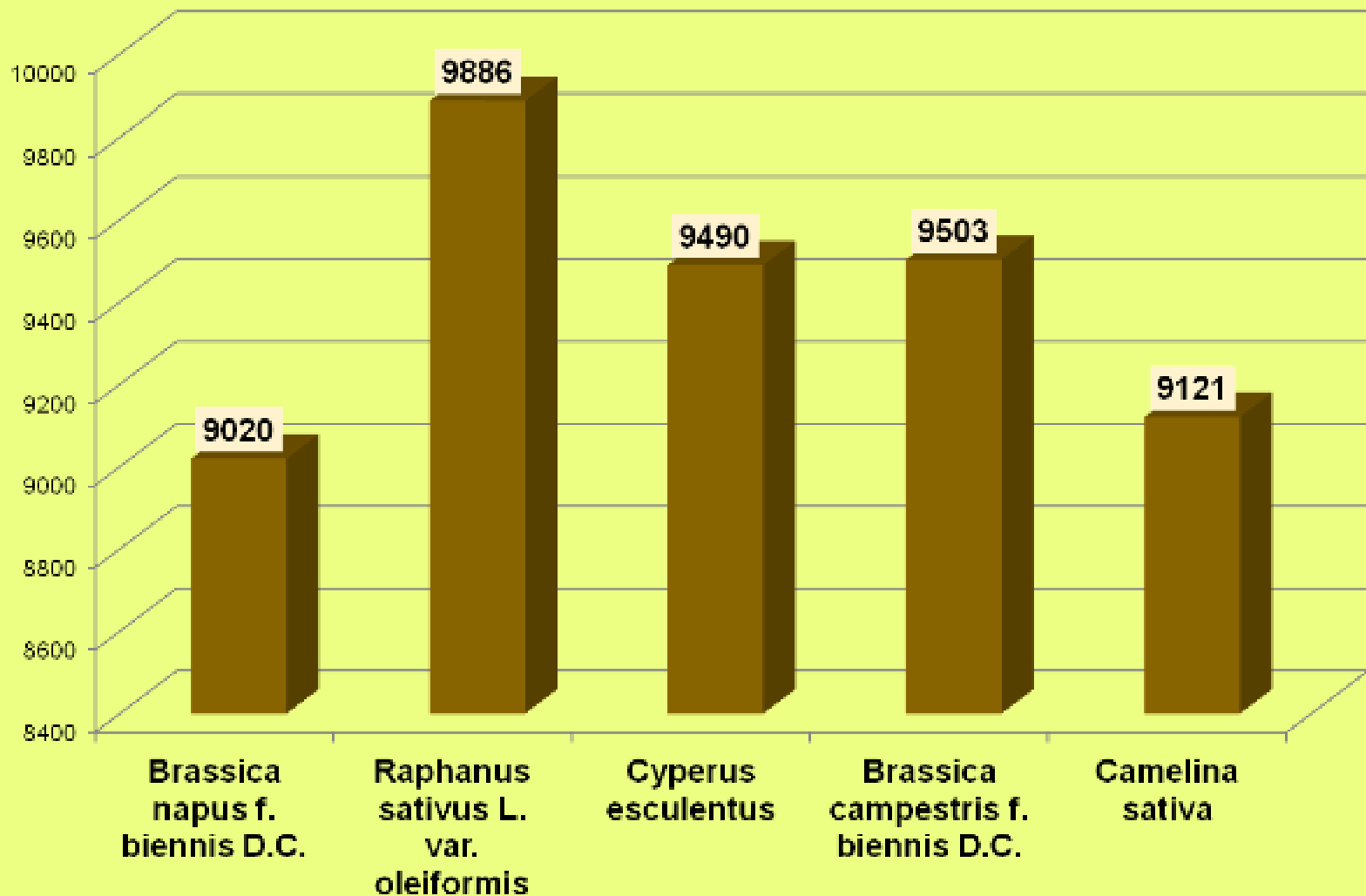


**Brassica campestris f. biennis × B.
rapa, cv. Obriy**



**Brassica campestris f. biennis,
cv. Oriana**

The energy value of raw oil plants, kcal / kg



Completed creation and put into agricultural production high oil *Camelina sativa* genotypes. Developed and conducted industrial tests of experimental technology for biodiesel production based on false flax raw materials as an alternative oilseeds.

This work is done in conjunction with:

- SI "Institute of Food Biotechnology and Genomics National Academy of Sciences of Ukraine"
- SE "Research Design and Development Bureau of the Institute of Electric them. Paton NAS of Ukraine "
- Institute of Hydrobiology of the NAS of Ukraine

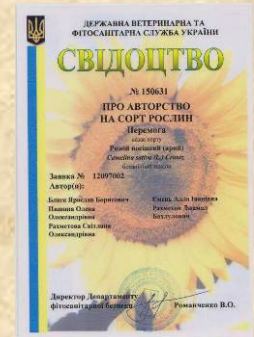


Camelina sativa, cv. Euro 12

Created false flax varieties differ from existing analogues high oil content (38-40% instead of 28-30%) and its exit (1000-1100 liters / ha instead of 600-700 l / ha) and Fatty acid composition that best suitable for biodiesel production.



**Camelina sativa,
cv. Peremoga**



In the NBG was developed production technology and processing fito material of aromatic plants for import

- LEGAL AND TECHNICAL DOCUMENTATION (TU) HERBAL ALTERNATIVE PLANTS
- THE RECIPE TECHNOLOGY HERBS AND THEIR USE IN THE CANNING INDUSTRY
- TECHNOLOGICAL INSTRUCTION (TI) FOR THE PRODUCTION OF DRY MASS FOR SPICY FOOD PURPOSES
- RECIPES FOR HERBAL TEAS



Meat from aromatic plants



ОКПІ 972619
972629 Група С 42

СОГЛАСОВАНО
Міністерство здравоохорони
України
Заключення державної санітарно-епідеміологічної експертизи
№ 95.03.02-06/УЗ/011
от "28" 04 2011 г.

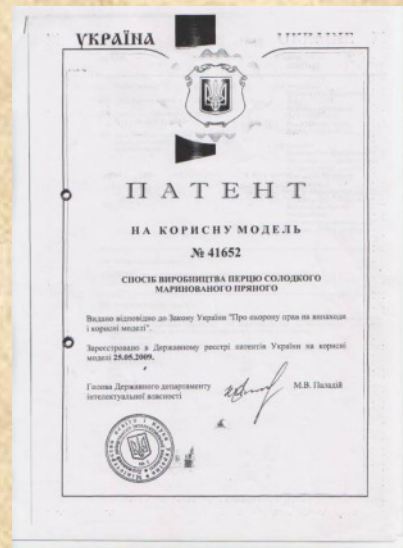
УТВЕРЖАЮ
Директор
Національного ботанічного саду
ім. Н.І. Гринько НАН України
"01" 05 2011 г.
Н. В. Заменко

ІЗМЕНЕНИЕ № 3
ЗЕЛЕНЬ ПРИЯНОАРОМАТИЧЕСКИХ РАСТЕНИЙ
(свежая и сушеная)
ТЕХНИЧЕСКИЕ УСЛОВИЯ
ТУ 10.17 УССР 39-88
(взамен ТУ III УССР 4-83, ТУ III УССР 6-83, III УССР 7-83)
Дата введения в действие с "25" 02 2011 г.

Державний науковий центр "Ботанічний сад ім. Н.І. Гринько НАН України"
Державний науковий центр "Ботанічний сад ім. Н.І. Гринько НАН України"
Центр стандартизації, метрології, сертифікації та контролю за якістю
Української академії аграрних наук
Зареєстровано "25" 02 2011 г.
в реєстрі патентів України № 103794/11

РАЗРАБОТАНО
Національний ботанічний сад
ім. Н.І. Гринько НАН України
Зав. відділом нових культур
доктор с.-г. наук
"25" 02 2011 г.
Д.Б. Рахметов

Ст. научн. сотр. отдела новых культур,
кандидат с.-г. наук
"28" 04 2011 г.
О.А. Короблева



New spice plants

- The search for *new spice plants* was initially caused by import limitations on the traditional spices, the latter being costly as well. The collection took its beginning at the search of substitutes and selecting of the perspective species for further usage in different branches of industry.
- Today the spite and aromatic plants collection consists of nearly 200 plant species.

Spicy-Aromatic plants

Lophanthus anisatus



cv. Synij veletenj



cv. Leleka



**Hyssopus officinalis,
cv. Atlant**



**Dracocephalum
moldavica L., cv. Markiz**



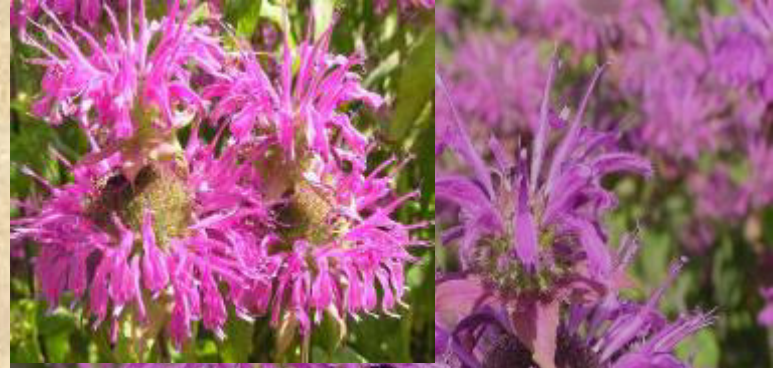
**Salvia sclarea L.,
cv. Kardinal**



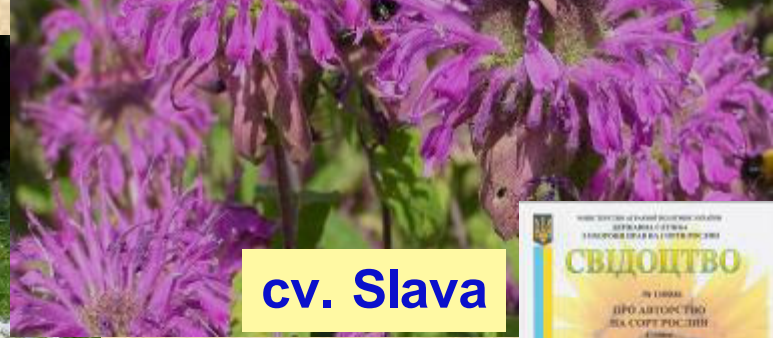
**Nigella sativa,
cv. Diana**

Monarda didyma

cv. Snighana



cv. Madonna



cv. Slava



**Different varieties
Vitex agnus-castus**

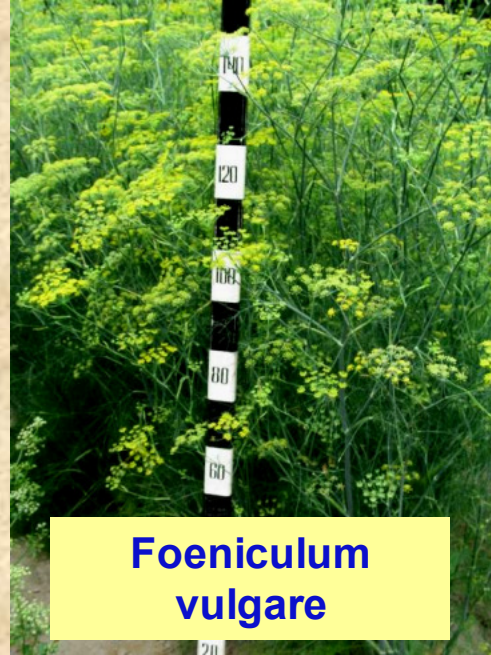


The vegetable plants

- *The vegetable plants* exposition and collection plot aims at demonstrating promising introduced plants that can be used as vegetable cultures; at making them popular with the consumers and collecting planting and seed material.
- More than 207 vegetable plant species representing 19 families are grown on this plot. It features the Salad, Spinach, Rhizocarpous, Bulbous, Gourd and Tuberos plant groups, including the cultivars originated by the National Botanical Garden.



**Brassica oleracea var.
botrytis, cv. Vitaminna**

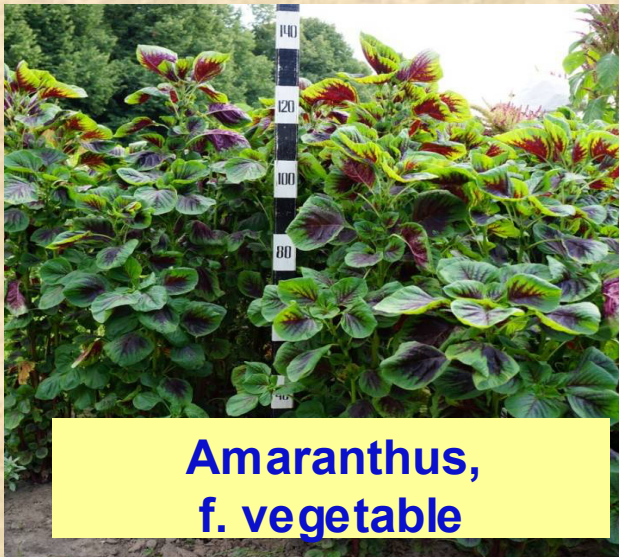


**Foeniculum
vulgare**



Cynara scolymus

**Developed technologies to manufacture new products
basis of rare vegetables. These technologies are implemented in
the private sector and among fans.**



**Amaranthus,
f. vegetable**



**Physalis ixocarpa,
cv. Lixtaryk**

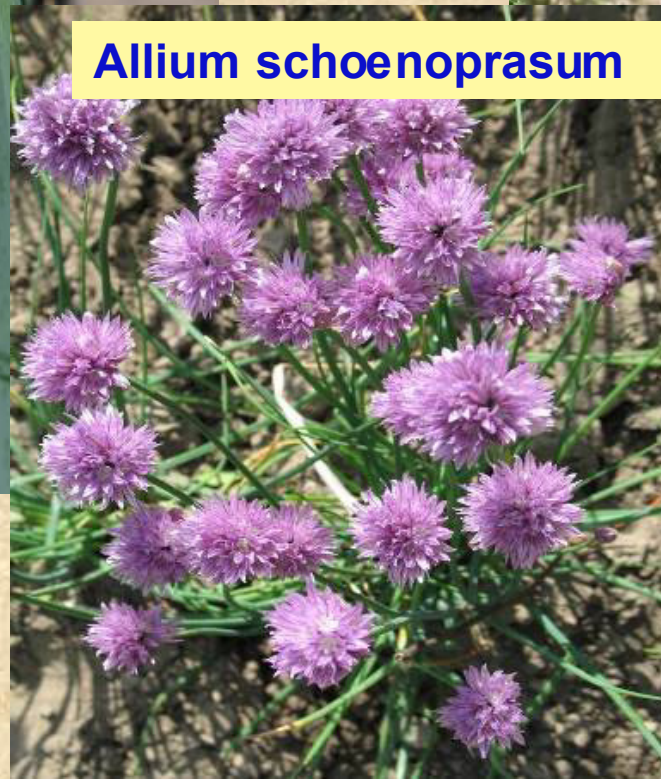


**Lactuca sativa L. var.
Romana, cv. Sovskiy**

Perennial onions (*Allium*)



Allium porrum



Allium schoenoprasum



***Allium nutans*,
cv. Lilejna**

Chrysanthemum coronarium

Diversity forms



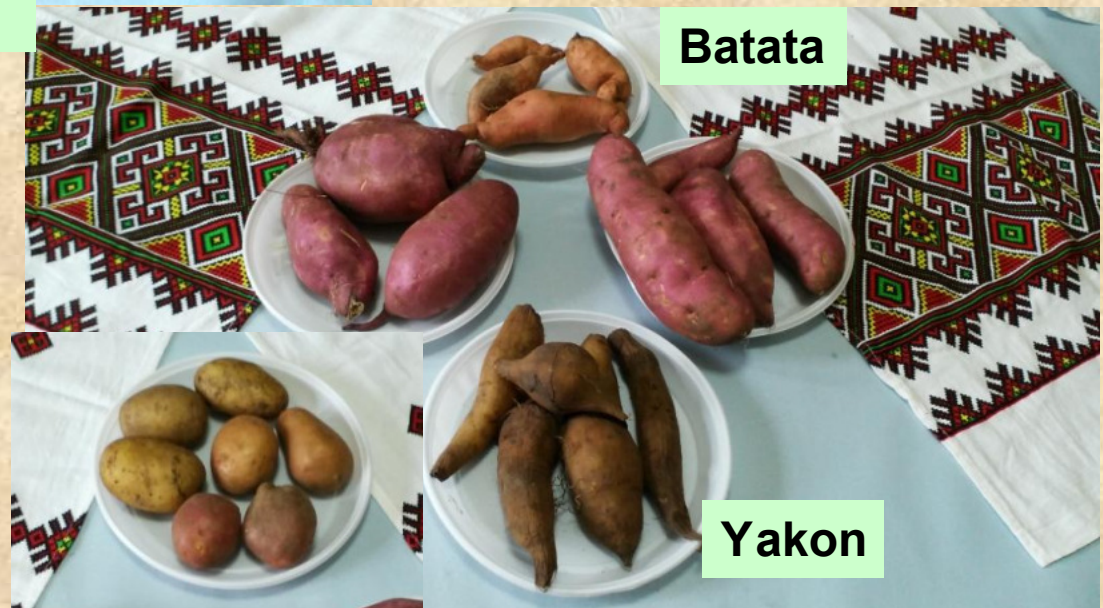


New food products from Shchavnat contains about 40% protein



Tubers *Helianthus tuberosus* (cv. Start) a source of inulin (over 20%)

Tubers yakona and various forms of yam compared with potatoes



Batata

Yakon

Development of lawn grass



Bent grass thin, cv. Desnyanska-51



Kostrytsya riznolysta,
cv. Izumrudna



cv. Clone



**Festuca rubra L.
cv. Syrecjka**



**Festuca rubra L.
cv. Vydubecjka Slavna**



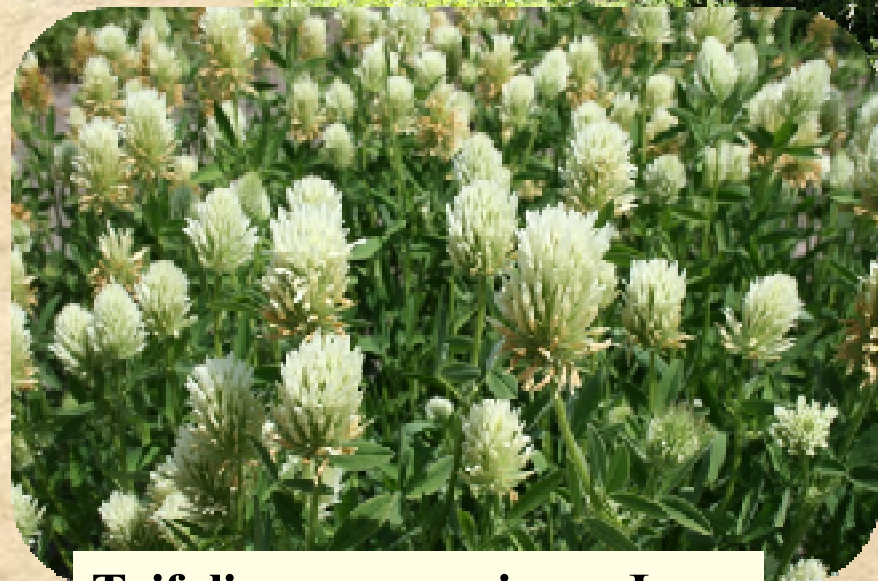
**Agrostis stolonifera L.
cv. Klonova**



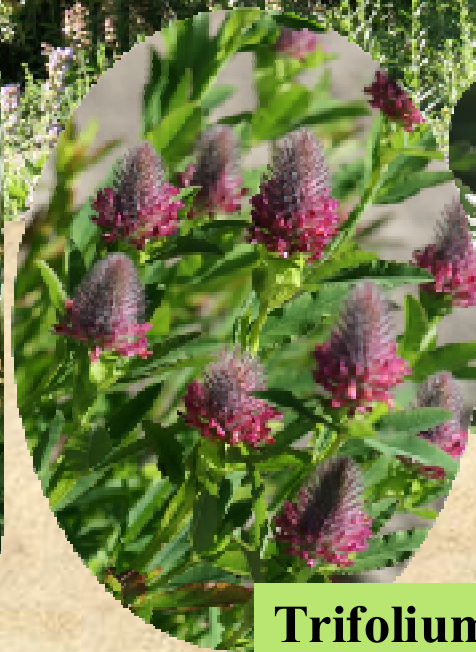
**Lolium perenne L.
cv. Vinnitska**



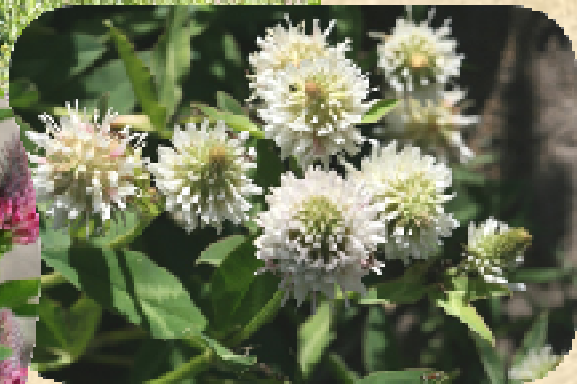
Crambe cordifolia Stev.



Trifolium pannonicum Jacq



Trifolium rubens L.

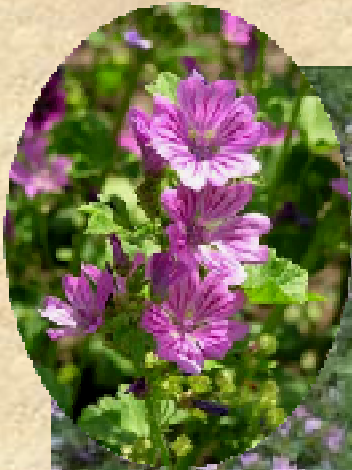




Lavatera



Lavatera thuringiaca L.



Malva sylvestris L.



Malva crispata L.

Recreation









Concerts of Classical Music in the National Botanical Garden

Scientific achievements at M.M Grishko NBG presented at exhibitions "Science-Production", "Ecology" "Picturesque Ukraine" Agricultural Exhibition "AGRO ..." with which obtained diplomas. MM Grishko NBG organized and conducted exhibitions Children's Day "Children - the glory of life," Plant Day "Wonderful World of plants you Ukraine, with love," Mother's Day and more.



До дня науки та міжнародного дня рослин
ВИСТАВКА ЖИВОПИСУ ТА
ДЕКОРАТИВНИХ ВИРОБІВ

**ДИВОВИЖНИЙ
СВІТ РОСЛИН,
ТОБІ, УКРАЇНО,
З ЛЮБОВ'Ю**



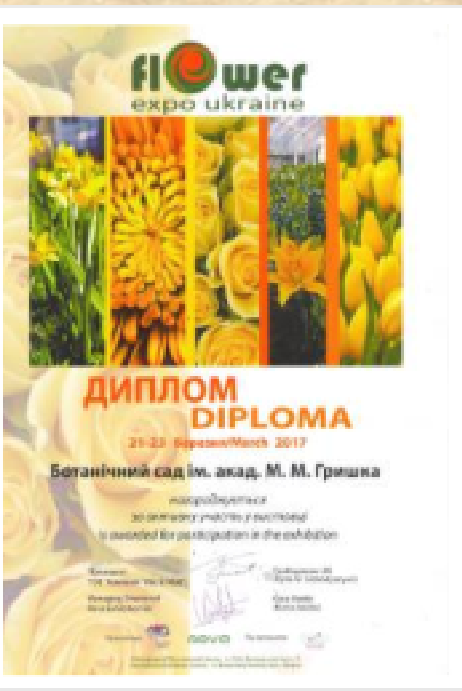
Національний
Ботанічний сад
Ім. М.М.Гришка
НАН України

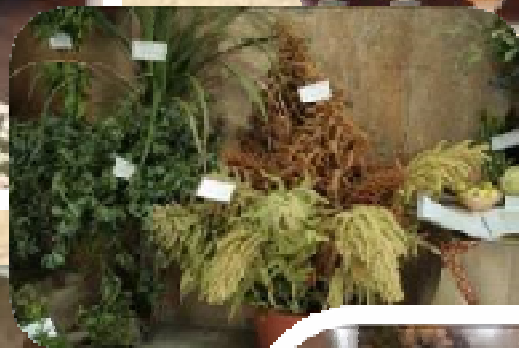
6 КОРПУС
Ботанічного саду

Відкриття
15 ТРАВНЯ
О 12.30









According to research topics NBG cooperates with scientists from, the USA, China, Germany, France, South Korea, Poland, Belarus, Kazakhstan, Slovakia, Azerbaijan, Georgia, Moldova

The above research results introduced in the curriculum of Ukraine universities. Collection fund of useful plants play an important role in scientific and educational activities of NBG, aesthetic and ecological education of a diverse population of Ukraine.

Manufacturers of bioenergy from UK and Latvia introduced to new developments



The delegation of scientists and manufacturers from France



The delegation from Germany



Turkish delegation on areas with schavnat



Scientists from the US acquainted with development department





Дякую за увагу!



Thank you for attention!



Спасибо за внимание!

