

# “Alexandru Ciubotaru” National Botanical Garden (Institute) of Moldova State University, Republic of Moldova

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## “Mobilization of plant genetic resources, plant breeding and use as forage, melliferous and energy crops in bioeconomy”

Research project no. 20.80009.5107.02, financing contract 42/1 PS

Project Manager: Victor ȚÎȚEL, researchers: Cîrlig N., Guțu A., Teleuță A., Lupan A., Cerempei V., Mocanu N., Coșman S., Cozari S., Doroftei V., Gadibadi M, Coșman V., Covalciuc D., Ababii A., Garștea N., Mardari L.

During the implementation of the research project “Mobilization of plant genetic resources, plant breeding and use as forage, melliferous and energy crops in bioeconomy” 2020-2023 y., from priority II: “Sustainable agriculture, food security and food safety” and strategic direction: “Cultivars and hybrids of high-productivity agricultural, technical and fodder crops” the new collection of melliferous plants with 60 plant taxa was founded in NBGI. The collections of fodder and energy plants mobilized from local flora and different floristic regions of the Earth were enriched with 110 new taxa, the some agro biological peculiarities were evaluated, the physical parameters of the seed material were established, the itinerary with the technical means for the cultivation and harvesting of multipurpose plants, the biochemical composition, nutritional and energy value of different types of fodder for farm animals were determined, the biochemical biomethane potential and cellulosic bioethanol potential from plant substrates were evaluated. Four new cultivars with multiple uses were breeding and registered in the Catalogue of Plant Varieties of the R. Moldova (<https://cstsp.md>) and patented by the State Agency on Intellectual Property of the Republic of Moldova (<https://agepi.gov.md/ro/publication/48>); two new cultivars of non-traditional crops were submitted for state testing and patenting. The results of scientific and innovative research were presented at 39 scientific events and 15 editions of international and national invention salons; 5 guides for agricultural producers were drafted and edited, and 116 scientific articles were drafted and published, including 3 articles in ISI journals ([www.incdafundulea.ro/rar.htm](http://www.incdafundulea.ro/rar.htm); <https://www.mdpi.com/2077-0472/13/6/1112/pdf>) and 39 articles in indexed journals from the Web of Science Core Collection databases, and were awarded 35 gold medals, 7 silver medals, 2 bronze medals and a 6 special prizes. The research results were also presented in 24 TV/Radio shows.

### Honey plants species



### Forage from new and nontraditional crops



### Solid fuel from energy crops



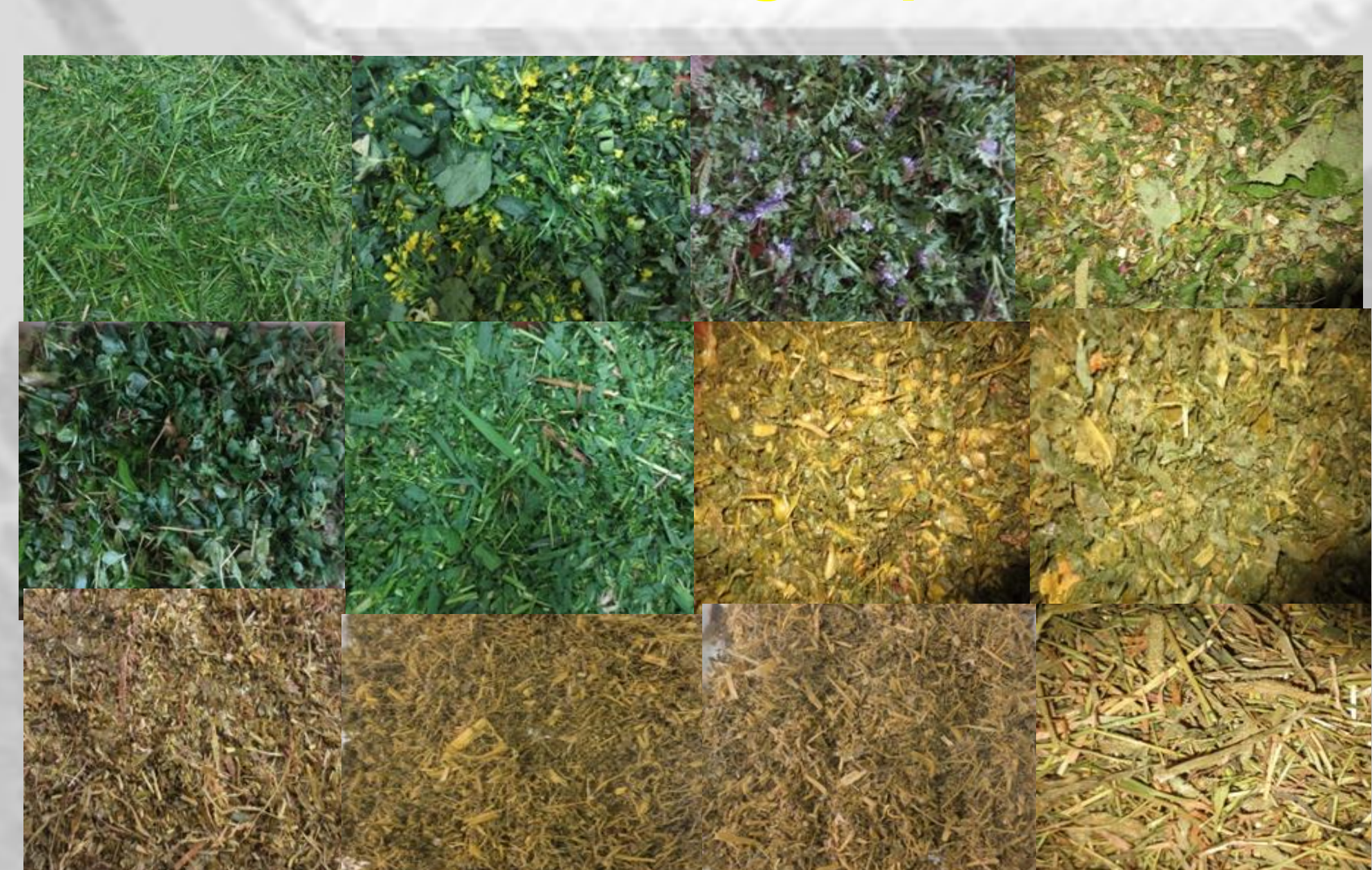
Feedstock for ethanol production



### Medals and prizes

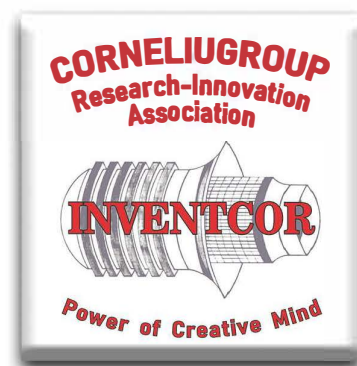


Feedstock for biogas production



ACKNOWLEDGMENTS: Financially supported, National Agency for Research and Development of the Republic of Moldova, contract 42/1PS

# DIPLOMA



**International Exhibition INVENTCOR**  
3<sup>rd</sup> edition, 15-17.12.2022, Deva, Romania

**AWARDED FOR**

**Mobilization of plant genetic resources, plant breeding and use as forage, melliferous and energy crops in bioeconomy**

**Research project no. 20.80009.5107.02, Financing contract 42/1 PS**

**TO**

**Project Manager Dr. Victor ȚÎȚEI**

**„Alexandru Ciubotaru” National Botanical Garden (Institute)**

**National Agency for Research and Development**

**Republic of Moldova**

Salon president,  
Associate Professor Corneliu BIRTOK BĂNEASĂ

Jury president,  
Professor Aurel Mihail ȚÎȚU

# EUROINVENT

EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION

IASI - ROMANIA



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15<sup>EDITION</sup>

# DIPLOMA GOLD MEDAL

2023

is awarded to:

**MOBILIZATION OF PLANT GENETIC RESOURCES, PLANT BREEDING AND  
USE AS FORAGE, MELLIFEROUS AND ENERGY CROPS IN BIOECONOMY**

Țîței V., Cîrlig Natalia, Guțu Ana, Teleuță A., Lupan Aurelia, Cerempei V.,  
Mocanu Natalia, Coșman S., Cozari S., Doroftei V., Gadibadi M,  
Coșman Valentina, Covalciuc D., Ababii A.

President of International Jury

Prof.Dr.Eng. Mohd Mustafa Al Bakri ABDULLAH

President of Scientific Committee

Prof. Dr. Ion SANDU

May 13, 2023



# Diploma of Honor

Offered to **GOLD MEDAL**

**VICTOR ȚÎȚEI NATALIA CÎRLIG, ANA GUȚU, ALEXANDRU TELEUȚĂ, AURELIA LUPAN, VALERIAN CEREMPEI, NATALIA MOCANU SERGIU COȘMAN, SERGHEI COZARI, VECEASLAV DOROFTEI, MIHAI GADIBADI, VALENTINA COȘMAN, DRAGOȘ COVALCIUC, ALEXEI ABABII, LILIANA MARDARI**

**“Alexandru Ciubotaru” National Botanical Garden (Institute) of  
Moldova State University, Chisinau, Republic of Moldova  
“MOBILIZATION OF PLANT GENETIC RESOURCES, PLANT BREEDING  
AND USE AS FORAGE, MELLIFEROUS AND ENERGY CROPS  
IN BIOECONOMY” IN THE STATE  
PROGRAM OF REPUBLIC OF MOLDOVA 2020-2023**

in recognition of high scientific contribution and loyalty to  
the XXVII-th INTERNATIONAL EXHIBITION OF INVENTICS

## INVENTICA 2023

Iasi, Romania

21-23 June 2023

GENERAL MANAGER  
NATIONAL INSTITUTE OF INVENTICS  
Prof. Neculai-Eugen SEGHDIN PhD



NATIONAL INSTITUTE  
OF INVENTICS, IAȘI





SALONUL INTERNAȚIONAL AL CERCETĂRII ȘTIINȚIFICE, INOVĂRII ȘI INVENTICII

# PRO INVENT

EDIȚIA XXI, 25-27 OCTOMBRIE 2023  
CLUJ-NAPOCA



## DIPLOMA DE EXCELENȚĂ ȘI MEDALIA DE AUR

Se acordă **Victor ȚÎȚEL** conducător de proiect, **Natalia CÎRLIG**, **Ana GUȚU**, **Alexandru TELEUȚĂ**, **Aurelia LUPAN**, **Valerian CEREMPEI**, **Natalia MOCANU**, **Sergiu COȘMAN**, **Serghei COZARI**, **Veceaslav DOROFTEI**, **Mihai GADIBADI**, **Valentina COȘMAN**, **Dragoș COVALCIUC**, **Alexei ABABIL**, **Nina GARȘTEA**, **Liliana MARDARI**

De la **UNIVERSITATEA DE STAT DIN MOLDOVA CHIȘINĂU**

Pentru **MOBILIZAREA RESURSELOR GENETICE VEGETALE, AMELIORAREA SOIURILOR DE PLANTE ȘI VALORIFICAREA LOR CA CULTURI FURAJERE, MELIFERE ȘI ENERGETICE ÎN CIRCUITUL BIOECONOMIC**

PREȘEDINTELE SALONULUI,  
Prof. dr. ing. VASILE ȚOPA  
Rector al Universității Tehnice din Cluj-Napoca



PREȘEDINTELE JURIULUI,  
Prof. dr. ing. RADU MUNTEANU

*Radu Munteanu*

## SPECIAL AWARD

For  
"Mobilization of plant genetic resources, plant  
breeding and use as forage, melliferous and  
energy crops in bioeconomy"  
Project no. 20.80009.5107.02, financing contract 42 PS

to

Project Manager: Țîței Victor

Researchers: Cizlig N., Butu A., Tecluță A., Lupan A., Coșman S.,  
Cezempei Val., Macanu N., Cozari S., Doroftei V., Tradiției M.,  
Coșman V., Covaleiuc D., Ababii A.

On the occasion of

**15<sup>th</sup> European Exhibition of Creativity and Innovation  
"EUROINVENT 2023" Iasi, Romania,  
11-13 May 2023**

Iasi, Romania  
May 2023

RECTOR,  
Assoc.Prof. Eng. Florin DRĂGAN, PhD





SALONUL INTERNAȚIONAL DE

**INVENȚII  
INOVAȚII**

„TRAIAN VUIA” TIMIȘOARA



# Diplomă

SE ACORDĂ



MEDALIA  
DE AUR

*pentru invenția*

„MOBILIZAREA RESURSELOR GENETICE VEGETALE, AMELIORAREA  
SOIURILOR DE PLANTE ȘI VALORIFICAREA LOR CA CULTURI  
FURAJERE, MELIFERE ȘI ENERGETICE ÎN CIRCUITUL BIOECONOMIC”,  
ACRONIMUL RVENMELFUR

*autor*

**Victor Țiței**

*instituția*

GRĂDINA BOTANICĂ NAȚIONALĂ (INSTITUT) „ALEXANDRU  
CIUBOTARU” DIN MOLDOVA  
AGENȚIA NAȚIONALĂ DE CERCETARE ȘI DEZVOLTARE DIN MOLDOVA

*Președinte juriu*

**Prof. dr. habil. Narcisa MEDERLE**



*Președinte salon*

**Remi RĂDULESCU**

Data 10 octombrie 2022