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MINISTERUL CERCETĂRII,
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DIPLOMA GOLD MEDAL 2023

is awarded to:

**THE PLUME POPPY *Macleaya cordata* (Willd.) R.BR.,
LOCAL CULTIVAR 'MIHAELA'**

Victor ȚÎȚEI

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

GOLD MEDAL

Offered to

VICTOR ȚÎȚEI

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

**THE NEW CULTIVAR ‘MIHAELA’ OF PLUME POPPY MACLEAYA
CORDATA (WILLD.) R.BR**

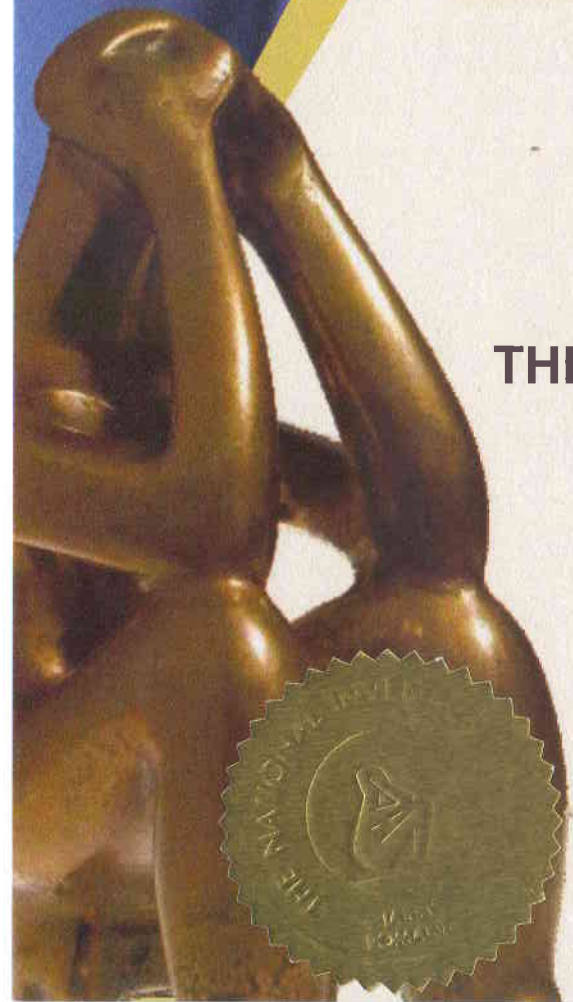
in recognition of high scientific contribution and loyalty to
the XXVII-th INTERNATIONAL EXHIBITION OF INVENTICS

INVENTICA 2023

Iasi, Romania

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

21-23 June 2023





SALONUL INTERNAȚIONAL DE

INVENȚII
INOVAȚII

„TRAIAN VUIA” TIMIȘOARA



Diplomă

SE ACORDĂ



MEDALIA
DE ARGINT

pentru invenția
SOIUL „MIHAELA” DE MACLEE CORDATA
MACLEAYA CORDATA (WILLD.) R.BR.

autor

Victor Țiței

instituția

GRĂDINA BOTANICĂ NAȚIONALĂ (INSTITUT) „ALEXANDRU
CIUBOTARU” DIN MOLDOVA

Președinte juriu

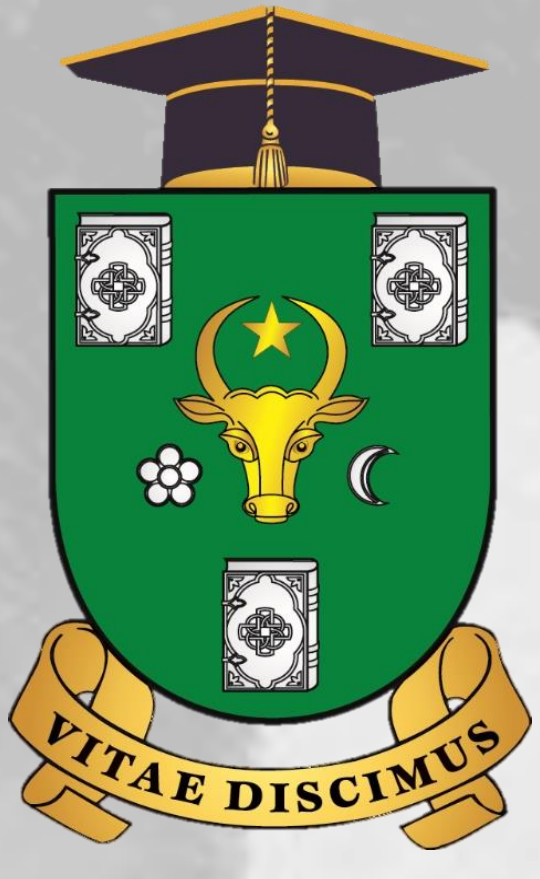
Prof. dr. habil. Narcisa MEDERLE

Președinte salon

Remi RĂDULESCU

Data 10 octombrie 2022





“Alexandru Ciubotaru” National Botanical Garden (Institute)
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„ MIHAELA” LOCAL VARIETY OF PLUME POPPY *Macleaya cordata* (Willd.) R.Br.

PATENT: MD v00014/2022.05.05

AUTHOR: Victor ȚÎȚEI

The local variety ‘MIHAELA’ of plume poppy *Macleaya cordata* (Willd.) R.Br., fam. *Papaveraceae* has been created by individual breeding of introduced vigorous rhizomatous perennial plant taxa. This variety reached 280-300 cm with attractive flower panicles, large scalloped leaves and spreading habit.

The yield of fresh leaves mass 29-34 t/ha, stem dry energy mass 13-17 t/ha.

Multi-purpose crops: medicinal, melliferous, ornamental, energy mass



Medicinal applications - herbs possess antitumor, anti-inflammatory, insecticidal and antibacterial activities, leaves content of BAS: sanguine 7.3-9.0 mg/g and chelerythrine 6.0-8.0 mg/g.

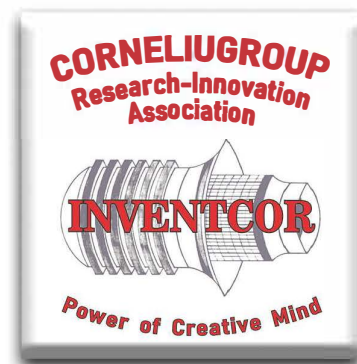
Melliferous plant—beekeeping season July-August, production potential 180-200kg/ha honey.

Energy stem dry biomass for solid biofuel - briquettes with specific density 780-830 kg/m³ and pellets—960-975 kg/m³, with gross calorific value 18.8-19.1 MJ/kg and 1.5-2.0% ash, as well as utilized as a substrate to obtain cellulosic ethanol with a potential of 533 l/t.

The cultivar ‘MIHAELA’ is suitable for the phyto-amelioration and the use of marginal, eroded and polluted lands.

ACKNOWLEDGMENTS: Financially supported, National Agency for Research and Development of the Republic of Moldova, contract 42/1PS of the project no. 20.80009.5107.02 “*Mobilization of plant genetic resources, plant breeding and use as forage, melliferous and energy crops in bioeconomy*”

DIPLOMA



International Exhibition INVENTCOR
3rd edition, 15-17.12.2022, Deva, Romania

AWARDED FOR

The cultivar 'MIHAELA' of plume poppy *Macleaya cordata* (Willd.) R.Br.

MD 00014/2022.05.05

TO

Dr. Victor ȚÎȚEI

**„Alexandru Ciubotaru” National Botanical Garden (Institute)
Republic of Moldova**

Salon president,
Associate Professor Corneliu BIRTOK BĂNEASĂ

Jury president,
Professor Aurel Mihail ȚÎȚU