



Moldova
State
University



Institute of
Genetics,
Physiology and
Plant Protection



Scientific Association of
Geneticists and
Breeders of the
Republic of Moldova



National Research
and Development
Institute for
Biological Sciences



SOCIETATEA ROMÂNĂ
DE BIOINGINERIE
ȘI BIOTEHNOLOGIE
Romanian Society of
Bioengineering and
Biotechnology

PROGRAMME

International Scientific Events

International Congress of Geneticists and Breeders of the Republic of Moldova, XIIth edition

International Scientific Symposium: *Advanced Biotechnologies - Achievements and Prospects*, VIIth edition

National Conference with International Participation: *Natural Sciences in the Dialogue of Generations*, VIIIth edition

**September 17–19, 2025
Chisinau, Republic of Moldova**



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**September 17–19, 2025
Chisinau, Republic of Moldova**

ORGANIZERS

Moldova State University (MSU)
Institute of Genetics, Physiology and Plant Protection (IGPPP)
Center of Functional Genetics, Moldova State University (CGF)
Doctoral School in Natural Sciences, Moldova State University (DSNS)
Faculty of Biology and Geosciences, Moldova State University (FBG)
Scientific Association of Geneticists and Breeders of the Republic of Moldova (SAGBRM)
National Research and Development Institute for Biological Sciences, Bucharest, (NRDIBS)
Romanian Society of Bioengineering and Biotechnology (RSBB)

Dear

We are pleased to invite you to the scientific events:

- ✓ International Congress of Geneticists and Breeders of the Republic of Moldova, XIIth edition
- ✓ International Scientific Symposium „*Advanced Biotechnologies - Achievements and Prospects*”, VIIth edition
- ✓ National Conference with International Participation „*Natural Sciences in the Dialogue of Generations*”, VIIIth edition

which will take place on September 17-19, 2025 in Chisinau, Republic of Moldova

Venue Details

Date & Time: September 17, 08:45 – 09:30

Location: "Regina Maria" Hall, Central Block, Moldova State University,
60 Alexei Mateevici Street,
Chisinau, MD-2009,
Republic of Moldova

SEPTEMBER, 17
Moldova State University,
"Regina Maria" Hall, Central block MSU, 60 Alexei Mateevici str.

OPENING CEREMONY AND PLENARY SESSION

Online connection link:

<https://us06web.zoom.us/j/87306845550?pwd=EnFbPa5b2D9xvpDioFgYseOnQQMTrt.1>

Meeting ID: 873 0684 5550, Passcode: 655741

Chairs: DUCA Maria, ANDRONIC Larisa

Location: *Moldova State University,
"Regina Maria" Hall, Central block MSU, 60 Alexei Mateevici str.*

08⁴⁵ – 9³⁰ REGISTRATION

9³⁰ - 10³⁰ Opening Remarks

Welcome Address

KOVARSKY Yevgeny, grandson of Kovarsky Anatoly, a founder of the Scientific Association of Geneticists and Breeders of the Republic of Moldova

Signing Ceremony

10³⁰-10⁴⁵ SAROV Igor, rector of the Moldova State University

ANDRUH Marius, Vice President of the Romanian Academy

Signing of the Collaboration Agreement between the Doctoral School of the Romanian Academy and the Doctoral Schools of Moldova State University

Invited Guest

10⁴⁵-11¹⁵ ANDRUH Marius, Vice President of the Romanian Academy

Serendipity: The Role of Chance in Scientific Research

11¹⁵-12⁰⁰ Group photo

Coffee break

Plenary Session (Keynote Speeches)

Location: *Moldova State University, Senate Hall, Central block, 60 Alexei Mateevici str.*

Online connection link:

<https://us06web.zoom.us/j/87306845550?pwd=EnFbPa5b2D9xvpDioFgYseOnQQMTrt.1>

Meeting ID: 873 0684 5550, Passcode: 655741

12⁰⁰ - 12³⁰ KOROL Abraham, Institute of Evolution, University of Haifa, Israel
Bioinformatic Analysis of Genome Organization: High-Quality Genetic, Physical, and QTL Mapping

12³⁰ - 13⁰⁰ PAUN Andrei, Romanian Academy Research Institute for Artificial Intelligence
"Mihai Drăgănescu" (ICIA), Bucharest, Romania
Artificial Intelligence applications in Biomedicine: past, present and future

13⁰⁰ - 13³⁰ ILIADI Konstantin, Department of Molecular Genetics, University of Toronto, Ontario, Canada
Drosophila as a Model for the Study of Neurodegenerative Disorders

13³⁰ - 14⁰⁰ SCHWARTAU Victor, Institute of Plant Physiology and Genetics, NASU, Kyiv, Ukraine
Testing Vectors with Phosphitoxidoreductase Gene in Nicotiana tabacum

Visit to Research Institutes and Laboratories

14⁰⁰ - 17⁰⁰ Cultural Program: Tour of the Mileștii Mici Winery, including a guided excursion, tasting of select wines, and lunch (*optional, at additional cost*)

SEPTEMBER, 18

THEMATIC SESSION

08 ⁴⁵ – 09 ⁰⁰	REGISTRATION (within each thematic session venue) THEMATIC SESSIONS Section 1. Library “Andrei Lupan”, 1st Floor, 5A Academiei Street Section 2. „Dimitrie Cantemir” Campus, 55/4 Hincești Street Section 4. Library “Andrei Lupan”, 2nd Floor, 5A Academiei Street Section 5. Institute of Zoology, 1 Academiei Street, room 321
09 ⁰⁰ – 12 ³⁰	Section 6. Institute of Microbiology and Biotechnology, 3/3 Academiei Street, room 415 Section 7. Institute of Physiology and Sanocreatology, 1 Academiei Street, room 352 Section 8. Institute of Chemistry, 3 Academiei Street, room 349 Section 9. Moldova State University, B.IV, room 222 Section 10. Moldova State University, B. IV, room 213 Section 11. Moldova State University, B. III, room 332
12 ³⁰ – 13 ⁰⁰	POSTER SESSION Scientific (Institute) Library “Andrei Lupan”, 1st Floor Lobby, 5A Academiei Street
13 ⁰⁰ – 14 ⁰⁰	LUNCH BREAK Scientific (Institute) Library “Andrei Lupan”, 2nd Floor Lobby, 5A Academiei Street THEMATIC SESSIONS Section 1. Library “Andrei Lupan”, 1st Floor, 5A Academiei Street Section 3. „Dimitrie Cantemir” Campus, 55/4 Hincești Street Section 4. Library “Andrei Lupan”, 2nd Floor, 5A Academiei Street Section 5. Institute of Zoology, 1 Academiei Street, room 321
14 ⁰⁰ – 17 ⁰⁰	

Section 1: PLANT GENETICS, BREEDING AND METABOLIC PROCESSES

Chairs: LUPASCU Galina, MUSTEATA Simion, BATIRU Grigore

Location: Library “Andrei Lupan”, 1st Floor, 5A Academiei Street

Online connection link:

<https://us06web.zoom.us/j/87306845550?pwd=EnFbPa5b2D9xvpDioFqYseOnGQMTTrt.1>

Meeting ID: 873 0684 5550, Passcode: 655741

- Korol Abraham**, *Institute of Evolution, University of Haifa, Israel*
Controlling recombination in plant breeding: new solutions in the genomics era
- Aliyeva Dursun**, Musayeva Sevinc, *Azerbaijan State Agriculture University, Azerbaijan*
Study of yield elements in local and introduced durum wheat genotypes
- Bobokashvili Zviad**, Maghlakelidze Elene, Vano Kakashvili, *LEPL SRC of Agriculture, Georgia*
Development of an efficient method for mini kiwi (*Actinidia arguta* Planch.) propagation in Georgia using hardwood cuttings
- Joita-Pacureanu Maria**, CRAB “Acad. David Davidescu”; NARD Fundulea, *Romania*
Studying different sunflower genotypes in conditions of the restrictive action of different anthropic and natural factors, on agricultural biodiversity
- Muliukina Nina**, Vlasov Viacheslav, Leshchenko Alla, Mezerniuk Taras, Nenartovych Andrii, Perepelitsa Olga, NSC “Tairov Institute of Viticulture and Winemaking”, NAASU, *Odessa*
Grapevine Protection: New Conditions, New Technologies
- Lupascu Galina**, Cristea Nicolae, Gavzer Svetlana, *Institute of Genetics, Physiology and Plant Protection*
Influence of temperature on common wheat – *Fusarium avenaceum* interactions
- Cojocari Dumitru**, Batiru Grigorii, Bounegru Serghei, Comarova Galina, *TUM*
Yield performance and genotype × ploidy interactions in diploid and tetraploid maize lines
- Deaghileva Angela**, Belousova Galina, Cuznetova Irina, Ignatova Zoia, *IGPPP, MSU*
Determination of major fungal pathogens in fresh plum fruits and greenhouse grown tomatoes
- Hutianskyi Roman**, Avramenko Serhii, *Yuriev Plant Production Institute of the NAAS, Kharkiv, Ukraine*
Weediness of winter wheat crops after various forecrops

10. **JeleV Natalia**, *Institute of Genetics, Physiology and Plant Protection, MSU*
Assessing drought tolerance through physiological responses in different wheat varieties
11. **Kupriianov Serghei**, *Institute for Potato Research of the NAAS, Ukraine, Kyiv, Ukraine*
Yield of potato varieties depending on the level of mineral nutrition
12. **Kuzmenko Natalia**, *Yuriev Plant Production Institute of the NAAS, Kharkiv, Ukraine*
Dynamics of root rot development in winter bread wheat plants
13. **Marii Liliانا**, Andronic Larisa, Ursachi Olga, *Institute of Genetics, Physiology and Plant Protection, MSU*
Multidimensional analysis of variation and interdependence among biomorphological traits in tomato under contrasting growing conditions
14. **Mikhailov Mikhail**, *Institute of Genetics, Physiology and Plant Protection, MSU*
Juxtaposition effect on crossing over in maize: factors and conditions
15. **Mishchenko Ivan**, Dashchenko Anna, Dunich Alina, Mishchenko Lidiya, Motsnyi Ivan, Fanin Yaroslav, Molodchenkova Olga, *National University of Life and Environmental Sciences of Ukraine, Kyiv*
Search for sources of resistance to major wheat diseases and yield increase in global warming conditions
16. **Nikishova Natalia**, Bondarchuk Oleksandr, Rakhmetov Dzhamal M.M. *Gryshko National Botanical Garden, NASU, Ukraine*
Dynamics of photosynthetic substances in *Panicum virgatum* L. plants depending on the stage of development and the method of sowing
17. **Pesteanu Ananie**, Cumanici Andrei, *Technical University of Moldova*
The behaviour of different rootstock biotypes from the Geneva group during the growth and fruit-bearing period in the apple plantation
18. Rabko Siarhei U., Paplauskaya Liliya F., Novikova Tatyana P., **Novikov Arthur I.**, Chesnokov Yuriy V., *Agrophysical Research Institute, St. Petersburg, Russian Federation*
Climatype breeding features of *Pinus sylvestris* L. cv. Negorelskaya
19. **Saltanovici Tatiana**, Andronic Larisa, Antoci Ludmila, *IGPPP, MSU*
The effect of glycosides on the adaptation of tomato pollen to combined stresses
20. Shevchenko L., Vus N., Raievska I., **Vasylenko Antonina**, *Yuriev Plant Production Institute of NAAS, Kharkiv*
Early-stage evaluation of cold stress response in *Pisum*
21. Vasylenko Antonina, **Vus Nadiia**, Besuhla Olha, Pozdnyakov Volodymyr, Olha Antsyferova, *French National Institute for Agriculture, Food, and Environment (INRAE), Dijon, France*
Establishment of PEG-6000 concentration for evaluating drought tolerance in *Phaseolus vulgaris*

Section 2: MOLECULAR GENETICS AND CELL BIOLOGY

Chairs: SACARA Victoria, PORT Angela

Location: „Dimitrie Cantemir” Campus, 55/4 Hincești Street

Online connection link:

<https://us06web.zoom.us/j/81681122349?pwd=w9sJUl93DlFuIjCDzPc0CUAtnUd6sbU.1>

Meeting ID: 816 8112 2349, Passcode: 774168

1. **Aslanov Rufat** (*PhD student, 1st year*), *Doctoral School of Natural Sciences, MSU*
Integrated computational approach for analyzing bioactive compounds in cardiovascular diseases
2. Duca Maria, **Antonov Alexandr** (*PhD student, 1st year*), Sidoroff Manuela, *Doctoral School of Natural Sciences, MSU*
Integration of genomics, proteomics and metabolomics for health status assessment: a systematic approach
3. **Coliban Iulia**, Usurelu Natalia, Sacara Victoria, *Institute of Mother and Child*
From validation to application: implementing a cost-effective qPCR assay for presymptomatic and symptomatic SMA diagnosis
4. **Dunich Alina**, Mishchenko Lidiya, Molodchenkova Olga, Mishchenko Ivan, Motsnyi Ivan, Fanin Yaroslav, *Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
Resistance against Wheat Streak Mosaic Virus: investigation of the *Wsm2* gene presence in wheat in Ukraine
5. **Mishchenko Lidiya**, Dunich Alina, Molodchenkova Olga, Anoprienko Olha, Dashchenko Anna, Motsnyi Ivan, *Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
Screening of wheat varieties on the *Wsm1* gene conferring resistance to WSM Virus in Ukraine

6. **Oprea Oana-Georgiana**, Balmus Ioana-Miruna, Plavan Gabriel, Nicoara Mircea, Ciobica Alin-Stelian
Alexandru Ioan Cuza University of Iasi, Romania
Effect of risperidone in modulating aggressive and anxious behavior in a Zebrafish model of autism
7. **Podoleanu Diana** (*PhD student, 3th year*), Munteanu Ion, Starodub Elena, Chirman Gheorghe, Enaki Nicolae, *Institute of Applied Physics, MSU*
Generation of photonic molecular complexes under the action of ultraviolet light in the DNA/RNA inactivation process
8. Rusu Andrei, **Brînză Ion**, Popovici Lucia, *Lucian Blaga" University of Sibiu, Romania*
Exploring the therapeutic potential of *Coriandrum sativum* essential oil in mitigating cognitive impairment and oxidative stress: insights from a Zebrafish model
9. **Secu Doina**, Blanita Daniela, Usurelu Natalia, Sacara Victoria, *Institute of Mother and Child*
Clinical, biochemical and genetic findings in a group of patients evaluated for suspected mitochondrial disorders
10. **Shevchenko Tetiana**, Pozhylov Illia, Snihur Halyna, Kyrychenko Anhelina, *Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv, Ukraine*
Multiplex RT-PCR for cereal virus surveillance in Ukraine

Section 3: BIOENGINEERING, BIOTECHNOLOGY FOR ENVIRONMENTAL AND PLANT PROTECTION

Chairs: VOLOSCIUC Leonid, SMEREA Svetlana

Location: „Dimitrie Cantemir” Campus, 55/4 Hincești Street

Online connection link:

<https://us06web.zoom.us/j/81681122349?pwd=w9sJUI93DlF0UjCDzPc0CUAtNld6sbU.1>

Meeting ID: 816 8112 2349, Passcode: 774168

1. **Volosciuc Leonid**, Scerbacova T., Stingaci A., Pinzaru B., Samoilova A., Harciuc O., Zavtoni P., Lungu A., Chistol M., Curiev L., *Institute of Genetics, Physiology and Plant Protection, MSU*
Trends in combating vine phytopathogens with the application of epiphytic microorganisms
2. **Banciu Cristian**, Moldoveanu Mirela M., Catana Rodica D., Dumitrache Cristina Alina, Dobre Doru Simon, Moza Iasmina M., Florescu Larisa, *Institute of Biology Bucharest of Romanian Academy*
Environmental monitoring through *Phragmites australis*: heavy metal analysis in ecotonal areas
3. **Batco Mihail**, Iordosopol Elena, Muntean Elena, *IGPPP, MSU*
The role of biofactors in regulating the density of some pests of vegetable crops
4. Bivol Alexei, Bădărău Sergiu, **Iurcu-Straistaru Elena**, Cirlig Natalia, *Institute of Zoology, MSU*
Research on new remedies with fungicidal action in impact on autumn barley diseases, central area
5. **Botnari Vasile**, Cotenco Eugenia, *Institute of Genetics, Physiology and Plant Protection, MSU*
Climate parameter monitoring a decisive factor for precision agriculture
6. **Fron Arcadie**, Batco Mihail, *Institute of Genetics, Physiology and Plant Protection, MSU*
Evaluation of *Zeuzera pyrina* infestation in walnut orchards and proposal of an alternative ecological control method
7. **Gavrilita Lidia**, *Institute of Genetics, Physiology and Plant Protection, MSU*
Multiplication and application of the entomophagic *Trichogramma* in the control of the pest complex
8. **Kuprianova Tetiana**, Makarchuk Natalia, Mironchuk Valentyna, *Institute for Potato Research, Nemishaieva, Kyiv region, Ukraine*
Biometric parameters of potato plants under *in vitro* conditions
9. **Lungu Andrei** (*PhD student, 4th year*), Volosciuc Leonid, *Institute of Genetics, Physiology and Plant Protection, MSU*
Strengthening the one health concept by expanding the range of biological entities for preserving plant health
10. **Paladi Ion**, *Institute of Genetics, Physiology and Plant Protection, MSU*
Special features of integrated protection of sunflowers in climate change conditions
11. **Tkalenko Yu. O.**, *Institute of Plant Protection of NAAS, Ukraine*
Spreading of the cabbage whitefly in Ukraine
12. Tretiacova Tatiana, **Todiras Vladimir**, Gusan Ana, *IGPPP, MSU*
Automatic monitoring system for phytosanitary risk assessment in apples orchards

Section 4: CONSERVATION AND UTILIZATION OF GENETIC RESOURCES

Chairs: COMAROVA Galina, ROMANCIUC Gabriela

Location: Library "Andrei Lupan", 2nd Floor, 5A Academiei Street

Online connection link:

<https://us06web.zoom.us/j/84720634521?pwd=mxmqglk898rpaC516yPD7oEppfyb8.1>

Meeting ID: 847 2063 4521, Passcode: 024123

1. **Rakhmetov Dzhamal, M.M.** *Gryshko National Botanical Garden, NASU, Kyiv, Ukraine*
Conservation, Enrichment and Use of New Phylogenetic Resources in Ukraine
2. **Bondarchuk Oleksandr,** Rakhmetov Dzhamal, Vergun Olena, Zaimenko Nataliya, Rakhmetova Svitlana, *M.M. Gryshko National Botanical Garden, NASU, Kyiv, Ukraine*
Mobilization and use of genetic resources of plants of the genus *Astragalus* in the conditions of Ukraine
3. **Ciocarlan Nina,** *National Botanical Garden (Institute) "Alexandru Ciubotaru", MSU*
Mentha species at risk preserved in the National Botanical Garden
4. Cotelea Ludmila, **Balmus Zinaida,** Butnarus Violeta, *IGPPP, MSU*
Results of the study of some quantitative characters of hybrids of different types of *Salvia scalarea* L.
5. Cretu Ruxandra-Mihaela, Stefanache C. P., **Grigoras Valentin,** Ichim M. C., Apreutesei O. T., Popa M. O., Manolica-Raclariu A. C. *NIRDBS, Bucharest, "Stejarul" BRS, Piatra Neamt, Romania*
Analytical solutions for monitoring vulnerable MAPs in food supplements
6. **Evren Atmaca,** *Transitional Zone Agricultural Research Institute, Eskisehir, Republic of Türkiye*
Registration of "Nihatbey" chickpea (*Cicer arietinum* L.) variety
7. **Gutu Ana,** Titei Victor, Cirlig Natalia, Gadibadi Mihai, Andreoiu Andreea, *NBG (Institute) "Al. Ciubotaru"*
The biochemical composition of green biomass of *Vicia* species in Moldova
8. **Khomiak Ivan,** Onyshchuk Irina, Khomiak Anastasia, *Zhytomyr Ivan Franko State University, Ukraine*
Rare habitats in the territory of granite quarries of central Polissia. Soil acidity and vegetation changes following strike UAV impacts
9. **Makovei Milania,** *Institute of Genetics, Physiology and Plant Protection, MSU*
Genetic sources of new germplasm for tomato breeding for fruit quality
10. **Manu Minodora,** Banciă Raluca Ioana, Mountford Owen, Marusca Traian, Blaj Vasile Adrian, Onete Marilena, *Institute of Biology Bucharest of Romanian Academy, Bucharest, Romania*
Assessment of conservation status of fertilized grasslands through characterization of environmental variables and soil fauna, from Bucegi mountains, Romania
11. **Manziuc Valerii,** *Technical University of Moldova*
Evaluation of the growth and productivity of new strawberry varieties in open field
12. **Onete Marilena,** Mihai Luiza-Silvia, Nicoara Roxana-Georgiana, Manu Minodora, *Institute of Biology, Romania*
Ailanthus altissima (Mill.) Swingle: ecology, ecosystem services, degree of invasion
13. **Paica Ioana Catalina,** Nicoară Roxana, Maria Gabriel Mihai, Vladimirescu Mihnea, Banciă Cristian, Manole Anca, *Institute of Biology Bucharest, Romanian Academy, Bucharest, Romania*
Initial observations on *Campanula romanica*: DNA barcoding and pollen morphology
14. **Pintea Maria,** *National Institute for Applied Research in Agriculture and Veterinary Medicine, Republic of Moldova*
Studies of the comportment of new introduced walnut varieties within Republic of Moldova
15. **Pozniak Oleksandr,** *Research station "Mayak" of Institute of Vegetable and Melons and of National Academy Agrarian Sciences of Ukraine, Kruty, Ukraine*
Valuable samples of the Ukrainian gene pool – local forms of vegetable plants
16. **Qurbanova Qamar,** Babayeva Sevd, Rahimov Habib, Abbasov Mehraj, *AR SEM Genetic Resources Institute*
Initial genetic diversity assessment of endemic hyrcanian wild fig populations in Azerbaijan
17. **Sfecla Victor** (*PhD student, 4th year*), Pinzaru Pavel, *National Botanical Garden (Institute) "Al. Ciubotaru", MSU*
Assessment of vascular flora diversity in the "Dobruša" landscape reserve
18. **Stefanache Camelia Paula,** Cretu Ruxandra-Mihaela, Grigoras Valentin, Ichim Mihael Cristin, Apreutesei Oana Teodora, Popa Madalina Oana, Manolica-Raclariu Ancuta Cristina, *NIRDBS, Bucharest, "Stejarul" Biological Research Sciences Piatra Neamt, Romania*
Use of MAP's with conservation status in food supplements: challenges & solutions
19. **Stoyanova Katherine,** Gavryluck Allona, *Ukrainian Science-Research Plant Quarantine Station Institute of Plant Protection, v. Boiany, Chernivtsi*
The disinfectants impact on process of culture *in vitro* input potato wart cultivar-differentiators

Section 5. ECOLOGY AND ANIMAL BIOLOGY

Chairs: UNGUREANU Laurenția, NASTAS Tudor, BILETCHI Lucia

Location: Institute of Zoology, 1 Academiei Street, room 321

1. **Caldari Vladislav**, Nisteanu Victoria, Larion Alina, Dibolscaia Natalia, *Institute of Zoology, MSU*
Diversity of bats (*Chiroptera*) in the limestone mines at Capresti, Republic of Moldova
2. **Glibiciuc Corina** (*PhD student, 1st year*), Nastas Tudor, IGPPP, *Doctoral School of Natural Sciences, MSU*
The impact of temperatures on the ontogenetic cycle development of the entomophagous *bracon hebetor* (*Hymenoptera: braconidae*)
3. **Eliseev Serghei**, *Institute of Genetics, Physiology and Plant Protection, MSU*
Some features of phenology of the oak lace bug *Corythucha arcuata* (*Hemiptera: Tingidae*)
4. **Iordosopol Elena**, Batco M., Eliseev S., Fron A., Filimon V., Iordosopol V., Fron A., Muntean E.
Institute of Genetics, Physiology and Plant Protection, MSU
Hibernating arthropods' complex in the plum tree orchard under the influence of green manures and nectariferous plants
5. **Isac Aliona** (*PhD student, 2nd year*), *Doctoral School of Natural Sciences, MSU*
Analysis of the variability of the water flows of the Botna river 1961-2020
6. **Istrati Sorina** (*PhD student, 4th year*), Munteanu-Molotievskiy Natalia, Moldovan Anna, *Institute of Zoology, MSU*
Malaise trap survey of beetles in a transitional ecosystem: insights from Țăul
7. **Nemerenco Olesia** (*PhD student, 3th year*), Nastas Tudor, IGPPP, *MSU*
Climate change and its impact on the development of the cotton bollworm *Helicoverpa armigera* Hbn
8. **Nisteanu Victoria**, Larion Alina, Burlacu Victoria, Caldari Vladislav, Munteanu Andrei, *Institute of Zoology, MSU*
Diversity of rodents (*Mammalia: Rodentia*) from „Pădurea Domnească” reserve, Republic of Moldova.
9. **Novac Gheorghe**, *Technical University of Moldova*
The spread of *Koelreuteria Paniculata* Laxm. under ecological conditions in the Republic of Moldova
10. **Popovici Aliona**, Grabco Nadejda, *Institute of Ecology and Geography, MSU*
Summer planktonic algae from the Cogălnic river basin in the territory of Cimișlia city
11. **Portarescu Anastasiia** (*PhD student, 4th year*), Bulimaga Constantin, Grabco Nadejda, *Institute of Ecology and Geography, Doctoral School of Natural Sciences, MSU*
Frequency of herbaceous plant species within Balti urban ecosystem
12. **Prodan Petru** (*PhD student, 3th year*), Bulimaga Constantin, *Institute of Ecology and Geography, MSU*
Seasonal influence of physico-chemical parameters on the phytoplankton community in the water of the Răut river, Bălți urban ecosystem, Republic of Moldova
13. **Rusu Iuliana** (*PhD student, 4th year*), Zavatin Maria, Nastas Tudor, IGPPP, *MSU*
Seasonal activity of *Halyomorpha halys* in the conditions of the Republic of Moldova
14. **Sochirca Natalia**, Munteanu Andrei, *Institute of Zoology, MSU*
Diversity of bird species from the park “La Izvor” Chișinău, Republica Moldova
15. **Țugulea Cristina**, *Institute of Zoology, MSU*
Denticucullus Pygmina (Haworth, 1809) (*Lepidoptera, Noctuidae*) – a new genus and species in the fauna of the Republic of Moldova
16. **Zavatin Maria**, Rusu Iuliana, Nastas Tudor, *Institute of Genetics, Physiology and Plant Protection, MSU*
Monitoring of the invasive population of *Halyomorpha halys* on ornamental plant species in the conditions of the Republic of Moldova
17. **Veringa Tamara** (*PhD student, 1st year*), Minzat Cristian, Bușmachi Galina, *Institute of Zoology*
New records of *Formica rufa* Linnaeus, 1761 (*Hymenoptera: Formicidae*) in the Republic of Moldova

Section 6: BIOTECHNOLOGIES

Chairs: CEPOI Liliana, CHIRIAC Tatiana

Location: Institute of Microbiology and Biotechnology, 3/3 Academiei Street, room 415

Online connection link:

<https://meet.google.com/rsv-bcgo-iow>

1. **Chialigava Omari** (*PhD student, 3th year*), *Doctoral School in Natural Sciences of State University of Moldova*
Geospatial and multivariate drivers of elemental composition in moss biomonitoring: insights from Georgia and Moldova moss survey 2020
2. **Frunze Nina**, *Institute of Microbiology and biotechnology, TUM*
Pool and diversity of prokaryotes of carbonate chernozem of long-term field experience of Moldova
3. **Guțu Nadejda** (*PhD student*), *Technical University of Moldova; Doctoral School of Natural Sciences, MSU*
Dynamics of the spread of causal agents of enterocolitis in the public health medical institution
4. **Indoiu Diana**, Rastimesina Inna, Postolachi Olga, Gutui Tatiana, *IMB, TUM*
Effect of nano zerovalent iron on soil polluted with organochlorine pesticides
5. **Magaz Pavel** (*PhD student, 3th year*), Chiselita Natalia, Chiselita Oleg, Efremova Nadejda, Chiriac Tatiana, *Institute of Microbiology and biotechnology, TUM; Doctoral School of Natural Sciences, MSU*
Kinetics of the fermentation process of bread dough using local yeast cultures
6. **Moldovanu Cristina**, Sirbu Tamara, *Institute of Microbiology and biotechnology, TUM*
Identification of micromycete strain with stimulatory potential for agricultural plants
7. **Muliukina Nina**, Bayraktar V., Liashenko H., Buzovska M., Melnik E., Herus L., Popova H., Balian I. Shkinder-Barmina A., Matiega O., *NSC "Tairov Institute of Viticulture and Winemaking", NAAS*
Wine yeast *Saccharomyces cerevisiae* research in Ukraine
8. **Peshkova Alexandra** (*PhD student, 3th year*), Ziniccovscaia Inga, Cepoi Liliana, *Doctoral School in Natural Sciences of State University of Moldova*
Foliar application of nanoparticles: effects on plants and consumers
9. **Sirbu Tamara**, Moldovan Cristina, *Institute of Microbiology and biotechnology, TUM*
Aquatic basins - natural source of fungi with antifungal potential
10. **Vergel Konstantin** (*PhD student, 3th year*), *Doctoral School in Natural Sciences of State University of Moldova*
Assessment of air pollution in the vicinity of thermal power plants using active biomonitoring
11. **Yao Meiling**, Nan Shu, *Institute of Animal and Plant Sciences of CAAS, Changchun, Jilin, China*
Improving spontaneous fermentation: microbial and sensory evaluation of fortified pied-de-cuve in Feteasca neagra wines

Section 7: HUMAN BIOLOGY

Chairs: FURDUI Teodor, MEREUȚA Ion, CIOCHINĂ Valentina

Location: Institute of Physiology and Sanocreatology, 1 Academiei Street, room 352

1. **Bordian Natalia** (*PhD student, 1st year*), Șeptitchi Vladimir, *Institute of Physiology and Sanocreatology, MSU*
The degree of study on the influence of antimicrobial drugs on nutrient absorption in the small intestine
2. **Chelaru-Postolache Cristian** (*PhD student, 1st year*), Chelaru-Postolache Oana Corina, Vlăsceanu Gabriela, *Gauss Ophthalmological Clinic Bacău; Doctoral School of Natural Sciences, MSU*
Role of phytocomponents in the prevention and treatment of DMVL
3. **Chelaru-Postolache Oana Corina** (*PhD student, 1st year*), Chelaru-Postolache Cristian, Vlăsceanu Gabriela, *Gauss Ophthalmological Clinic Bacău; Doctoral School of Natural Sciences, MSU*
Role of phytocompounds in retina protection in patients with diabetic retinopathy
4. **Corlăteanu Alexandr**, *Faculty of Veterinary Medicine, Technical University of Moldova*
Using the stereotactic method for neuroendocrine investigation
5. **David Adelina** (*PhD student, 1st year*), Crivoi Aurelia, *Doctoral School of Natural Sciences, MSU*
Dynamics of some parameters in patients with hepatitis B in sanatorial conditions
6. **Faustino Vera** (*PhD student, 1st year*), *Doctoral School of Natural Sciences, MSU*
Assessing self-image levels in adolescents with food intolerance
7. **Gaidei Serghei** (*PhD student, 1st year*), Septitchi V.I., *Institute of Physiology and Sanocreatology, MSU*
On the role of nutritional factors in the development of the membrane digestion system in the small intestine

8. **Grițenco Ella** (*PhD student, 1st year*), Septitchi VI., Borschev Y., *IPS, MSU*
Model of physiological monitoring for early signs of info-digital addiction in children
9. **Listopadova Lyudmila**, Baci Anatolie, *Institute of Physiology and Sanocreatology, MSU*
Promoting circadian activity and eating behavior by the environment design
10. **Pușica Zainea** (*PhD student*), *Doctoral School of Natural Sciences, MSU*
The impact of somato-vegetative health on the psycho-emotional state of hospitalized people
11. **Ratea Camelia** (*PhD student, 3th year*), *Doctoral School of Natural Sciences, MSU*
Dietary regulation of microbiota-derived histamine and barrier function in a pediatric patient with single ventricle physiology
12. **Septitchi Alexandr** (*PhD student, 2nd year*), Ciochina Valentina, *Institute of Physiology and Sanocreatology, Doctoral School of Natural Sciences, MSU*
Current understandings of the impact of lifestyle factors on the preservation of cognitive function in aging
13. **Vasilciuc Anastasia** (*PhD student*), Septitchi Vladimir, *Institute of Physiology and Sanocreatology, Doctoral School of Natural Sciences, MSU*
Influence of *Streptomyces massasporeus* CNMN-Ac-36 biomass cultivated on a nutrient medium enriched with cyanobacterial metabolites on the reproductive performance of white rats
14. **Vlasceanu Gabriela**, Florea Nicolae, Eremia Florentina, *Bioterra University of Bucharest; "Atlas" Theoretical High School of Bucharest, Romania*
Effects of electromagnetic fields on living organisms

Section 8: MACROCOMPOUNDS, METABOLISM AND SUSTAINABLE CHEMICAL TECHNOLOGIES

Chairs: ARICU Aculina, GLADCHI Viorica, COCU Maria

Location: Institute of Chemistry, 3 Academiei Street, room 349

1. **Ciobanu Natalia** (*PhD student*), **Macaev Fiur**, *Institute of Chemistry, MSU*
Bioactivity of 3,4-dihydropyrimidine-2-(thi)ones
2. **Cisteacov Maxim** (*PhD student, 2nd year*), Blonschi Vladislav, Gladchi Viorica, *Doctoral School of Natural Sciences, MSU* Intensity of photochemical transformation of vitamin B₂ in aqueous systems
3. **Druta Alexandrina** (*PhD student, 2nd year*), Lungu Ion, Gutu Iacob, Potlog Tamara, Alberto Jose Coelho Coton, *Doctoral School of Natural Sciences, MSU*
Synthesis and characterization of zinc tetranitrophthalocyanine
4. **Grigoraș Carolina** (*PhD student, 2nd year*), Gonța M., Ciocărlan Al., *Institute of Chemistry, MSU*
Standardization of propolis as a raw material of medical and cosmetic interest
5. **Jalba Angela** (*PhD student, 1st year*), *Institute of Chemistry, Doctoral School of Natural Sciences, MSU*
Physico-chemical analysis, synthesis methods and applications of lawsone (2-hydroxy-1,4-naphthoquinone)
6. **Pintea Aliona** (*PhD student, 1st year*), Spirca Ionela, Rusnac Roman, Gulea Aurelian, *Institute of Chemistry, Doctoral School of Natural Sciences, MSU*
Synthesis and characterization of pyridoxal thiosemicarbazones with ortho and para-anesidine

Section 9: APPLIED PHYSICS AND EMERGING TECHNOLOGIES

Chairs: VATAVU Sergiu, ȘIKIMAKA Olga

Location: Moldova State University, B.IV, room 222

1. **Alsheikh Hanan** (*PhD student, 2nd year*), *Institute of Applied Physics, MSU*
Influence of nanostructuring process on corrosion behavior of Zr1%Nb and Zr2.5%Nb alloys for biomedical applications
2. **Beleaev Ecaterina** (*PhD student, 1st year*), Kravtsov Victor, Baca Svetlana, *Institute of Applied Physics, MSU*
Heterometallic octanuclear Co-In nanoclusters based on triethanolamine and pivalate ligands
3. **Caragacian Stanislav** (*PhD student, 1st year*), Sirkeli Vadim, Nika Denis, *Institute of Applied Physics*,
Optical properties of ingan-based light-emitting diodes
4. **Ghilețchi Gheorghe** (*PhD student, 2nd year*), Narolschi Igor, Rusu Marin, Vatau Sergiu, *Faculty of Physics and Engineering, Doctoral School of Natural Sciences, MSU*
Trends and challenges in the synthesis and characterization of doped NiO thin films
5. **Stati Dumitru** (*PhD student*), Brîx Daniel, Jan van Leusen, Kögerler Paul, Baca Svetlana, *Institute of Applied Physics, MSU*
Decanuclear {CeIv6CollI4} isobutyrate nanocluster with N-butylidethanolamine

6. Stepanenco Nila, **Cardanet Vladlen**, Velnita Cornel, Tonu Nicoleta, *Institute of Geology and Seismology, MSU*
Characteristics of Vrancea earthquakes felt in 2022–2025 on the territory of Moldova
7. **Suman Victor** (*PhD student, 3rd year*), *Doctoral School of Natural Sciences, MSU*
Gold nanoparticles: preparation, properties and applications
8. **Varzari Alexandru** (*PhD student, 2nd year*), Clucanov Alexandr, Vatau Sergiu, *Faculty of Physics and Engineering, Doctoral School of Natural Sciences, MSU*
Excitonic states in ii-vi semiconductors within the green's function formalism

Section 10: MATHEMATICAL MODELING, ARTIFICIAL INTELLIGENCE, AND BIG DATA IN NATURAL SCIENCES

Chairs: HÎNCU Boris, SÂRBU Parascovia

Location: Moldova State University, B. IV, room 213

1. **Balcanuta Elena**, Gîncu Silviu, *Cahul College of Medicine*
Coderunner items – an innovative approach to developing computer programming skills
2. **Branoaia Gabriela-Cristina** (*PhD student, 3rd year*), *Doctoral School of Natural Sciences, MSU*
H5P-based digital tools in moodle for adaptive mathematics education
3. **Ieșeanu Ecaterina**, *Cahul College of Medicine*
Opportunities of using calculated items in the evaluation process
4. **Cernov Vladimir** (*PhD student, 2nd year*), *Vladimir Andrunachievici Institute of Mathematics and Computer Science, MSU*
Development and research of hash functions, including quasigroup-based
5. **Cuznețov Elena** (*PhD student*), *Faculty of Mathematics and Computer Science, Doctoral School of Natural Sciences, MSU*
Prolongation and recursive differentiability of quasigroups
6. **Darii Olga** (*PhD student, 1st year*), *Doctoral School of Natural Sciences, MSU*
Integrating Ilm-based automation into CI/CD workflows for web app testin
7. **Ieșeanu Dumitru** (*PhD student, 3rd year*), *Doctoral School of Natural Sciences, MSU*
Coderunner - interactive tool for self-training in programming
8. **Lupu Maria** (*PhD student, 4th year*), *Doctoral School of Natural Sciences, MSU*
Some aspects of the application of multidimensional scaling for Anns modeling of physical systems
9. **Mușinchi Lidia** (*PhD student, 2nd year*), *Vladimir Andrunachievici Institute of Mathematics and Computer Science, Doctoral School of Natural Sciences, MSU*
Lie operators admitted by the differential system s3(1,3)
10. **Rotari Tatiana** (*PhD student, 1st year*), *Faculty of Mathematics and Computer Science, Doctoral School of Natural Sciences, MSU*
Ternary quasigroups with exactly four distinct parastrophes, which are orthogonal
11. **Vatamanu Liubov, Groza Anastasia**, *Institute of Geology and Seismology, MSU*
Digitization of geological information (data – underground gas storage, Moldova)

Section 11: GEOGRAPHY AND ENVIRONMENTAL PROTECTION

Chairs: SOCHIRCA Vitalie, NICOARĂ Igor, NAGACEVSCHI Tatiana

Location: Moldova State University, B. III, room 332

1. **Botnari Aliona** (*PhD student*), *Institute of Ecology and Geography, Doctoral School of Natural Sciences, MSU*
Temperature and precipitation trends in the Ialpuș river basin region
2. **Cantir Angela** (*PhD student, 1st year*), Bunduc Tatiana, *Institute of Ecology and Geography, MSU*
Observations on morphometric indicators determined based on the dem within Calintir hydrographic basin
3. Codreanu Igor, **Corabieru Maxim** (*PhD student, 1st year*), *Doctoral School of Natural Sciences, MSU*
Characterization of climate risks during the cold season and adaptation methods
4. **Gaceu Ovidiu Razvan**, Caciora Tudor, Baias Ștefan, Morar Cezar, Dudaș Mihai, Stupariu Marius, Maxim Maria, *University of Oradea, Romania*
Reconstruction of climatic events from the 16th century in Transylvania: interdisciplinary analysis based on historical sources
5. **Gaceu Ovidiu Razvan**, Baias Ștefan, Caciora Tudor, *University of Oradea, Romania*
Scientists's views on climate change over the past 150 years
6. **Sochirca Vitalie**, Nagacevschi Tatiana, *Faculty of Biology and Geosciences, MSU*
Soil research at the archaeological site Upper Trajan's Wall in the Cimișlia district sector

SEPTEMBER, 19

THEMATIC SESSION

08 ⁴⁵ – 09 ⁰⁰	REGISTRATION (within each thematic session venue)
09 ⁰⁰ – 12 ⁰⁰	THEMATIC SESSION 1
12 ⁰⁰ – 13 ⁰⁰	COFFEE BREAK Scientific (Institute) Library “Andrei Lupan”, 2nd Floor Lobby, 5A Academiei Street
13 ⁰⁰ – 14 ⁰⁰	Concluding remarks Scientific (Institute) Library “Andrei Lupan”, 2nd Floor Lobby, 5A Academiei Street
14 ⁰⁰ – 16 ⁰⁰	SCAGBRM General Assembly (Scientific Association of Geneticists and Breeders of the Republic of Moldova)

Section 1: PLANT GENETICS, PHYSIOLOGY AND BIOTECHNOLOGY

Chairs: CLAPCO Steliana, SMEREA Svetlana

Location: Library “Andrei Lupan”, 1st Floor, 5A Academiei Street

Online connection link:

<https://us06web.zoom.us/j/87306845550?pwd=EnFbPa5b2D9xvpDioFqYseOnGQMTrt.1>
Meeting ID: 873 0684 5550, Passcode: 655741

1. **Birsa Maxim**, Balan Ludmila, Bogdan-Golubi Nina, Moldovan Cristina, *IMB, TUM*
Effect of bacterial exometabolites against fusariosis – pathogens of eggplant crop
2. **Chistol Marcela** (*PhD student, 2nd year*), *Institute of Genetics Physiology and Plant Protection*
Oil content in seeds by NMR relaxation method
3. **Cristea Nicolae** (*PhD student, 4th year*), Lupaşcu Galina, *Institute of GPPP*
Influence of stress temperature on the growth of *Fusarium oxysporum* fungus
4. **Cutitaru Doina**, Brindza Ján, *Institute of Genetics, Physiology and Plant Protection, MSU*
Impact of gamma ray-induced mutagenesis on oil accumulation in flax seeds
5. **Dobrojan Sergiu**, Dobrojan Galina, Jigau Gheorghe, Melnic Victor, Melnic Angela, *MSU*
Study of the biostimulatory effect of algal preparation on the germination of seeds
6. **Gisca Alina** (*PhD student, 1st year*), *Institute of Genetics, Physiology and Plant Protection, MSU*
Photosynthetic pigment content in plum trees depending on growing conditions
7. **Mihaila Victoria** (*PhD student, 1st year*), Brindza Ján, *Institute of Genetics, Physiology and Plant Protection*
Reaction of samples of the species *Cuphea lanceolata* Ait. to the action of abiotic stress factors
8. **Plamadeala Ivan**, Bilici Inna, Talpalaru Dumitru, *Technical University of Moldova*
Evaluation of apple varieties under intensive cultivation for industrialization
9. **Rotaru Vladimir**, *Institute of Genetics, Physiology and Plant Protection, MSU*
Influence of the application of biorational plant protection products on leaf chlorophylls, carotenoids content and productivity of cucumber plants
10. **Russu Stanislav**, Buza Cornel, Talpalaru Dumitru, *Technical University of Moldova*
Influence of crown shape on the growth and fruiting of new cherry varieties under the conditions of the RM
11. **Secrieru Silvia**, *Technical University of Moldova*
Influence of the preparation Ecostim on the parameters of photosynthetic activity and productivity of winter barley varieties

SCAGBRM General Assembly

Chairs: DUCA Maria, ANDRONIC Larisa, COTENCO Eugenia

Location: Library “Andrei Lupan”, 1st Floor, 5A Academiei Street

14⁰⁰–16⁰⁰

Online connection link:

<https://us06web.zoom.us/j/81681122349?pwd=w9sJU193DlFUiCDzPc0CUAtnUd6sbU.1>

Meeting ID: 816 8112 2349, Passcode: 774168

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**Romanian Society of
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XII International Congress of Geneticists and Breeders of the Republic of Moldova

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PORT Angela, *Center of Functional Genetics, MSU*

SACARA Victoria, *Institute of Mother and Child*

I. GENERAL AND MOLECULAR GENETICS

1. **Deaghileva A., Belousova G., Cuznetova I., Ignatova Z. Muller K.** MOLECULAR DIAGNOSTICS OF SOME FUNGAL PATHOGENS IN GREENHOUSE GROWN TOMATOES
2. **Gladcaia A., Cisnicean L.** METHOD OF ACTIVATING ENTOMOPHAGES AND POLLINATORS HYMENOPTERA ORDER NATURAL POPULATIONS WITH THE AIM OF INCREASING THE AGROSYSTEM PRODUCTIVITY
3. **Golovcova S.** ASSESSING GENETIC DIVERSITY IN TRITICALE POPULATIONS USING iPBS MARKERS
4. **Iurcu-Straistaru E., Bivol A., Rusu S., Rusu V.** PARASITIC NEMATOFUNA IN PEA CROPS (*Pisum sativum* L.) UNDER THE IMPACT OF THE UNSTABLE ENVIRONMENTAL CONDITIONS OF THE REPUBLIC OF MOLDOVA
5. **Șitnic V., Nistoreanu V., Munteanu V., Larion A., Sochirca N.** DETERMINATION OF THE PHYLOGENETIC LINEAGE OF THE SPECIES MICROTUS ARVALIS FROM THE REPUBLIC OF MOLDOVA BASED ON CYTB GENE SEQUENCING
6. **Uzun T., Grăjdieru C.** MOLECULAR-GENETIC IDENTIFICATION OF CERTAIN FRUIT TREE MYCOPATHOGENS TRANSMITTED BY APHID VECTORS

II. HUMAN AND MEDICAL GENETICS

7. **Bacalov I., Crivoi A., Chirița E., Druța A.** HOMEOSTASIS OF CARBOHYDRATE METABOLISM IN EXPERIMENTAL DIABETES UNDER THE INFLUENCE OF THE BIOPREPARATION SEV-3
8. **Duca M., Antonov A.** GENETIC MAPPING OF HUMAN DISEASES: A QUANTITATIVE AND FUNCTIONAL PERSPECTIVE ON GENE-PATHOLOGY RELATIONSHIPS
9. **Turuta L., Dudnic E.** MANIFESTATIONS OF PHYSIOLOGICAL HOMEOSTASIS DYSFUNCTIONS

III. PLANT GENETICS AND BREEDING

10. **Avădăni L., Guțu C., Iacobuța M.** THE ROLE OF GENETIC RESOURCES IN THE IMPROVEMENT AND DEVELOPMENT OF NEW LEGUME CROP VARIETIES
11. **Balan V., Bîlici I., Șarban V., Russu S., Buza C., Talpalaru D.** NEW TRAINING SYSTEMS FOR HIGH-DENSITY CHERRY PLANTATIONS
12. **Balmuș Z., Cotelea L., Butnaraș V.** EVALUATION OF INBRED LINES OF SALVIA SCLAREA L.
13. **Batiru G., Comarova G.** USE OF BIOFORTIFICATION PRINCIPLES IN DEVELOPING A MAIZE GERMPLASM COLLECTION
14. **Bîlici I., Balan V., Șarban V., Russu S., Buza C., Talpalaru D.** INFLUENCE OF PLANTING DISTANCE AND CROWN SHAPE ON THE GROWTH, PRODUCTIVITY AND QUALITY OF CHERRY FRUITS, GRAFTED ON GISEALA 6
15. **Borozan P., Musteața S., Spînu V., Spînu A., Donici R.** REZULTATELE AMELIORĂRII PORUMBULUI TIMPURIU ÎN REPUBLICA MOLDOVA
16. **Brindza J., Horčinová-Sedláčková V.** BREEDING THE DOMESTIC APPLE TREE (MALUS DOMESTICA BORKH.) AS A FAMILY CREATIVE ACTIVITY
17. **Butnaraș V., Balmuș Z., Cotelea L.** PRODUCTIVITY INDICES IN LAVANDULA ANGUSTIFOLIA MILL. VARIETIES, SIXTH YEAR OF VEGETATION
18. **Climenco O.** SCREENING OF CORN GENOTYPES FOR SALINITY RESISTANCE
19. **Cojocari D., Bounegru S., Batiru G.** EVALUATION OF MID-PARENT AND BEST-PARENT HETEROSIS FOR GRAIN YIELD IN SELECTED MAIZE INBRED LINES
20. **Corlateanu L., Mihaila V., Ganea A., Focsha N.** STORAGE POTENTIAL OF THE EGGPLANT (SOLANUM MELONGENA L.) COLLECTION ACCESSIONS FOR EX SITU CONSERVATION IN A PLANT GENE BANK
21. **Cotelea L., Balmuș Z., Butnaraș V.** EVALUATION OF NEW HYBRIDS OF SALVIA SCLAREA L., WITH HIGH ESSENTIAL OIL CONTENT
22. **Cristea N., Lupascu G.** RESEARCH ON THE INTERACTION PECULIARITIES OF COMMON WHEAT WITH FUSARIUM OXYSPORUM ISOLATES
23. **Cursunji D.** AGRONOMICAL CHARACTERISTICS THE BREEDING GERMPLASM OF CHICKPEA
24. **Cutitaru D., Brindza J.** INDUCTION OF ARTIFICIAL MUTATIONS IN LINUM USITATISSIMUM L.

BY EXPOSING SEEDS TO DIFFERENT DOSES OF X-RAYS

25. **Duca M., Clapco S., Mutu A., Martea R., Joita-Pacureanu M.** COMPARATIVE DROUGHT RESISTANCE IN SUNFLOWER UNDER CONTROLLED CONDITIONS
26. **Elisovetcaia D., Ivanova R., Popovschi E., Fedorencu E., Brindza J.** ADAPTATION OF BEECH PLANTS FROM DIFFERENT PROVENANCES TO NATURAL GROWTH CONDITIONS
27. **Ezerina E., Chesnokov Y.** INFLUENCE OF PHOTOPERIOD ON PRODUCTIVITY AND SPECTRAL INDICES OF LEAF BLADES OF GARDEN CRESS SAMPLES GROWN UNDER LIGHT CULTURE CONDITIONS
28. **Gore A., Leatamborg S., Rotari S.** BREEDING OF COMON WHEAT (TRITICUM AESTIVUM) IN THE CENTRAL PART OF RM
29. **Ivanova R., Lutcan E., Vanicovici N., Borovskaia A., Elisovetcaia D.** IMPACT OF NON-OPTIMAL TEMPERATURE AND BIOREGULATOR ON ROOT AND SEEDLING VIGOUR OF CORN
30. **Leatamborg S., Rotari S., Gore A.** STUDY OF VARIABILITY IN PRODUCTIVITY ELEMENTS OF WINTER TRITICALE COLLECTION
31. **Lupascu G., Cristea N., Gavzer S.** INFLUENCE OF THE FUSARIUM OXYSPORUM FUNGUS ON THE TRANSGRESSIVE POTENTIAL OF GROWTH TRAITS OF COMMON WHEAT
32. **Marinciu C.-M., Șerban G., Mandea V., Galit I., Saulescu N.** RANKS AND RANK STABILITY OF WHEAT CULTIVARS TESTED IN NATIONAL YIELD TRIALS IN ROMANIA
33. **Makovei M.** THE BREEDING OF HIGHLY RESISTANT TOMATO F1 HYBRIDS TO STRESS ABIOTIC FACTORS
34. **Malii A.** EVALUATION OF OSMOTIC STRESS TOLERANCE DURING THE GERMINATION STAGE IN SOYBEAN GENOTYPES
35. **Mihnea N., Rusu V., Brezeanu P., Ambărus S.** COMPARATIVE ANALYSIS OF RESISTANCE TO HIGH TEMPERATURE STRESS IN PROSPECTIVE TOMATO LINES
36. **Nikolić V., Žilić S., Simić M., Sarić B., Milovanović D., Babić V.** VARIABILITY OF THE PHYSICOCHEMICAL PROPERTIES OF SELECTED MAIZE GENOTYPES AND PROSPECTS OF THEIR APPLICATION FOR VARIOUS PURPOSES
37. **Ogudin G., Artemyeva A., Solovyeva A.** SOURCES OF ECONOMICALLY VALUABLE TRAITS FOR *BRASSICA RAPA* L.
38. **Pintea M.** RESERCHES REGARDING ADAPTABILITY OF NEW WALNUT VARIETIES IN THE CONDITIONS OF REPUBLIC OF MOLDOVA
39. **Port A.** TEMPORAL GENE EXPRESSION PATTERNS DURING MICROSPOROGENESIS IN SUNFLOWER
40. **Romanciuc G.** HE POSSIBILITY OF INTEGRATING THE REPUBLIC OF MOLDOVA INTO THE MULTILATERAL SYSTEM OF THE INTERNATIONAL TREATY ON PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE
41. **Rudacova A., Cherdivara A., Rudacov S.** EFFECT OF DROUGHT ON THE TOTAL PROTEIN COMPOSITION IN SUNFLOWER SEEDLINGS

IV. BIOTECHNOLOGIES

42. **Bobrova O., Golosna L., Narozhnyi S., Osetsky A., Zamecnik J.** ANTIFUNGAL ACTIVITY OF LIPID FRACTIONS OF MEDICINAL PLANTS AGAINST FUSARIUM ISOLATES FROM INFECTED GARLIC CLOVES
43. **Cepoi L., Chiriac T., Rudi L., Zinicovscaia I.** BIOTECHNOLOGICAL VALORIZATION OF ARTHROSPIRA PLATENSIS FOR HEAVY METAL AND RARE EARTH ELEMENT RECOVERY FROM MULTIMETALLIC EFFLUENTS
44. **Ciobanu R.** EVALUATION OF VARIABILITY OF QUANTITATIVE CHARACTERS IN SC4 TRITICLE SOMACLONES WITH VALUABLE AGRONOMIC PROPERTIES
45. **Curiev L.** TESTING OF THE RIHTER WDG PREPARATION IN THE CONTROL OF APPLE SCAB (*VENTURIA INAEQUALIS* WINT)
46. **Harciuc O., Sütymez M., Chistol M., Malii A., Stingaci A.** OIL CONTENT IN SEEDS BY NMR RELAXATION METHOD
47. **Ivanišová E., Dluhoš M., Grygorieva O.** EXPLORING THE PHYTOCHEMICAL PROFILE AND SENSORY PROPERTIES OF GREEN AND ROASTED COFFEA ARABICA L. BEANS FROM DIVERSE GEOGRAPHIC REGIONS

48. **Kuleshova T.** INFLUENCE OF ROOT ENVIRONMENT HUMIDITY ON THE GENERATION OF POTENTIAL DIFFERENCE IN A PLANT BIOELECTROCHEMICAL SYSTEM
49. **Mocanu L., Gonta M.** CATALYTIC OXIDATION OF GALLIC: MECHANISMS, KINETICS, AND BYPRODUCT ANALYSIS
50. **Paladi I.** STUDY OF THE EFFICIENCY OF SUNFLOWER BEETLE CONTROL METHODS IN THE CONTEXT OF INTENSIFICATION AND EXPANSION OF CULTIVATION AREAS
51. **Samoilova A.** THE INFLUENCE OF UV PROTECTANTS ON THE BACTERIOPHAGE ABILITY TO SUPPRESS FIRE BLIGHT DEVELOPMENT IN THE PLANTS TISSUES
52. **Scerbacova T., Curiev L., Stingaci A., Gore A.** TESTING OF A BIOPREPARATION BASED ON BACILLUS AMYLOLIQUEFACIENS FOR WINTER WHEAT PROTECTION AGAINST DISEASES
53. **Șiromeatnicov I., Cotenco E., Paladi D., Brezeanu P., Ambărus S.** VARIABILITY AND EQUALITY OF BIOCHEMICAL QUALITATIVE CHARACTERISTICS VARIETIES AND LINES NEW TOMATO OBTAINED *IN VITRO*
54. **Slanina V., Balan L.** ANTIBACTERIAL ACTIVITY OF SOME BACILLUS STRAINS IN DEPENDENCE ON THE CULTURE MEDIUM
55. **Todiras V., Corcimar S., Slanina V., Balan L., Prisacari S.** PHYTOSTIMULATORY POTENTIAL OF SOME BACTERIA FOR WHEAT AND MAIZE

International Scientific Symposium „Advanced Biotechnologies – Achievements and Prospects”

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A. MOLECULAR AND CELL BIOLOGY

1. **Bannikova M., Morgun B., López-Arredondo D., Herrera-Estrella L., Schwartau V.** TESTING VECTORS WITH PHOSPHITOXIDOREDUCTASE GENE IN *Nicotiana tabacum*
2. **Bivol I.** IDENTIFICATION AND ANALYSIS OF TANDEM REPEATS IN *Orobancha cumana* GENOME
3. **Climenco O.** SALT TOLERANCE OF MALE GAMETOPHYTE OF MAIZE
4. **Duca M., Clapco S., Martea R., Oprea E.I.** BIOINFORMATICS ANALYSIS OF RESEARCH TRENDS ON THE ROLE OF FLAVONOIDS IN PLANT RESPONSE TO STRESS
5. **Grajdiu C., Bilici E.** ASSESSING MOLECULAR POLYMORPHISM OF MAIZE COLLECTION SAMPLES USING iPBS MARKERS
6. **Grajdiu C., Mitina I., Zgardan D., Balanuta A., Rubtov S., Sturza R.** MOLECULAR DETECTION OF SEVERAL MICROBIAL SPOILAGE AGENTS IN MOLDOVAN WINE PRODUCED IN MICRO-WINERY
7. **Kyrychenko S., Sozinov I., Bondar T., Bondus R., Mishchenko L., Kozub N.** ANALYSIS OF UKRAINIAN POTATO VARIETIES USING THE MOLECULAR MARKER YES-3A OF THE *Ry^{sto}* GENE FOR THE EXTREME RESISTANCE TO POTATO VIRUS Y
8. **Ma M., Liu G., Sun B., Yang Y., Lu W.** HPLC-BASED ANALYSIS OF FRACTIONS OF *Vitis amurensis* AND COMPREHENSIVE EVALUATION OF FRUIT QUALITY
9. **Mitina I., Grajdiu C., Bahsiev A., Tumanova L., Mitin V., Muller K.** GENOMIC TECHNIQUES FOR SUSTAINABLE CROP IMPROVEMENT
10. **Port A.** CATALASE GENE ISOFORMS IN MICROSPOROGENESIS: EXPRESSION DYNAMICS IN FERTILE SUNFLOWER ANTHERS
11. **Uzun T.** ASSESSMENT OF THE ROLE OF SPONTANEOUS FLORA IN FRUIT ORCHARDS IN RESERVING FUNGAL PHYTOPATHOGENS

B. BIOENGINEERING AND TISSUE CULTURE

12. **Ciobanu R.** ANALYSIS OF VARIANCE OF BIOMORPHOLOGICAL INDICES IN TRITICALE SC₁ - SC₂ SOMACLONES
13. **Duca M., Ciocarlan A., Mutu A.** BIOTECHNOLOGICAL APPLICATIONS OF SUNFLOWER POLLEN: FROM GENETIC ENGINEERING TO FUNCTIONAL BIOPRODUCTS
14. **Koldar L., Ishchuk L.** ESTABLISHMENT OF *in vitro* ASEPTIC CULTURE OF THE RARE SPECIES *Cercis occidentalis* Boiss. IN UKRAINE
15. **Kovalenko G., Chernets A., Gendov N., Prodaniuc L., Calashean N.** OPTIMIZATION OF MICROPROPAGATION PROCESSES OF STRAWBERRY VARIETY AROSA
16. **Marinescu M.** FLOWERING PHENOLOGY IN TWO PLUM CULTIVARS
17. **Medvedieva T., Natalchuk T., Rudnyk-Ivashchenko O., Schwartau V.** INFLUENCE OF DIFFERENT EXPLANTS ON LAVANDULA AND LAVANDIN MICROPROPAGATION
18. **Opalko O., Hrabovyi V., Opalko A.** SEXUAL DIMORPHISM OF POST-TRAUMA NON-MORPHOGENIC REGENERATIVE CAPACITY OF *Acer negundo* L.
19. **Pozhylov I., Korotieva H., Andrichuk O.** MULTISTEP DIAGNOSTICS OF ORSV AND CYMMV IN ORCHIDS DURING MICROPROPAGATION

C. MACROCOMPOUNDS AND METABOLIC PROCESSES

20. **Dascaluic A., Calugaru-Spataru T.** PHENOTYPIC PLASTICITY AND ASSESSMENT OF PLANT RESISTANCE TO THE THERMAL STRESS
21. **Harciuc O., Sutyemez M., Chistol M.** WATER USE EFFICIENCY OF SOYBEAN AND WALNUT ACCORDING PHOTOSYNTHETIC PARAMETERS OF PLANT LEAVES
22. **Ivanova R., Mascenco N., Elisovetcaia D., Ivanišová E., Brindza J.** PHENOLIC COMPONENTS OF PLANT EXTRACTS AND THEIR RELATIONSHIPS WITH ANTIOXIDANT CAPACITY
23. **Popovschi E., Ivanova R., Elisovetcaia D.** IMPACT OF TEMPERATURE AND BIOREGULATOR ON STARCH USED FOR CORN SEEDS GERMINATION
24. **Raclariu-Manolica A.C., Badea G.I., Trifan A., Popa M.O.** ADVANCED ANALYTICAL APPROACHES FOR THE DETECTION OF TROPANE ALKALOID CONTAMINATION IN HERBAL TEAS – INSIGHTS FROM THE “ConTraI” PROJECT

D. BIOTECHNOLOGY FOR ENVIRONMENT AND PLANT PROTECTION

25. **Bahsiev A., Zamorzaeva I.** MOLECULAR DIAGNOSIS OF PHYTOPLASMA PRESENCE IN PLUM ORCHARDS
26. **Balan L., Slanina V., Todiras V., Corcimaru S.** BACTERIAL STRAINS WITH HIGH BIOTECHNOLOGIC POTENTIAL FOR AGRICULTURE
27. **Batco M., Iordosopol E., Muntean E., Todiras V.** EFFECT OF NEEM OIL ON THE VIABILITY OF PREIMAGINAL STAGES OF THE WAX MOTH
28. **Bella V., Brindza J.** WILD POPULATIONS AS A BASIC GENE POOL AND A SELECTIVE POPULATION FOR THE BREEDING OF ELDERBERRY (*Sambucus nigra* L.)
29. **Bodnariuk R., Vakerych M., Hasynets Y., Khomiak I., Onyshchuk I., Schwartau V.** HEAVY METAL CONTENT AND SOIL ACIDITY IN THE MOST TRAFFIC-LOADED AREAS OF UZHGOROD, UKRAINE
30. **Bogaciov E., Erhan T.** ASSESSMENT OF THE DISTRIBUTION AREA AND POPULATION DENSITY OF THE WESTERN CORN ROOTWORM
31. **Bogdan-Golubi N., Slanina V., Balan L.** INFLUENCE OF THE MEDIUM COMPOSITION ON BIOSYNTHETIC PROPERTIES OF *Lactococcus lactis*
32. **Burlacu M., Pesteanu A.** PRODUCTIVITY OF THE PLUM PLANTATION DURING THE FRUITING PERIOD ACCORDING TO THE CULTIVATED ASSORTMENT
33. **Chernikova N.** BIOCHEMICAL AND RHIZOSPHERIC FEATURES OF *AESCULUS HIPPOCASTANUM* IN URBAN SITES
34. **Chernova I.** DESIGN OF BIOENGINEERING COMPLEXES FOR BIOLOGICAL PROTECTION OF PLANTS
35. **Comarova G.** DIGITAL TECHNOLOGY FOR COMPARATIVE ANALYSIS OF PROTEIN ELECTROPHORETIC SPECTRA IN MAIZE BREEDING AND GENETIC RESEARCH
36. **Craciunescu O., Mihai E., Oprita E.I., Gaspar-Pintiliescu A., Duca M., Clapco S.** GREEN BIOTECHNOLOGY FOR THE VALORIZATION OF SUNFLOWER RAY FLORETS AS SOURCE OF PHENOLIC COMPOUNDS WITH ANTIOXIDANT PROPERTIES
37. **Curiev L., Pinzaru B.** RIZOPLAN AND TRICHODERMIN SC FOR THE CONTROL OF *Venturia inaequalis* Wint.
38. **Elisovetcaia D., Ivanova R., Andronic L.** DOSE-DEPENDENT GERMINATION RESPONSE IN HIGH-VIABILITY BEECH SEEDS EXPOSED TO X-RAYS
39. **Filimon V., Iordosopol E., Batco M.** THE ROLE OF THE FLATID CICAD (*Metcalfa pruniosa* Say) IN THE URBAN LANDSCAPE
40. **Fron A.** ASSESSMENT OF THE DISTRIBUTION AND INFESTATION IMPACT OF *Zeuzera pyrina* IN WALNUT ORCHARDS IN THE REPUBLIC OF MOLDOVA
41. **Fron A., Iordosopol E., Fron A.** NATURAL REGULATORS OF APPLE WORM (*Cydia pomonella* L., TORTRICIDAE) IN WALNUT
42. **Grajdiu C., Sucman N., Pogrebnoi V., Cojocari S.** NOVEL TRIZOLE DERIVATES AND CHITOSAN REVEAL SYNERGY IN SUPPRESSING *Fusarium* spp.
43. **Hunchak M.** BIOLOGICAL APPROACH OF APPLE TREES PROTECTION FROM POWDERY MILDEW IN TERMS OF WESTERN FOREST-STEPPE OF UKRAINE
44. **Iordosopol V., Iordosopol E., Batco M.** FIRST RECORD OF THE INVASIVE LEAFHOPPER *Hauptidia maroccana* Melichar IN THE REPUBLIC OF MOLDOVA AND ITS TROPICAL LINKS
45. **Ivanova R., Borovskaia A., Lutcan E.** CORRELATION ANALYSIS BETWEEN MORPHO-PHYSIOLOGICAL TRAITS OF CORN UNDER THE INFLUENCE OF TEMPERATURES
46. **Kovbasenko R., Symonenko Y., Emelyanov V.** CELL SELECTION OF DROUGHT-RESISTANT TOMATO PLANTS
47. **Muntean E., Iordosopol E., Batco M., Filimon V.** NEW ALIEN PREDATORY BUG IN THE PLUM ORCHARD OF THE REPUBLIC OF MOLDOVA
48. **Nemerenco O.** POPULATION DYNAMICS OF *Agrotis segetum* IN THE CONTEXT OF CLIMATE CHANGE
49. **Nicută A., Bujoreanu N., Harea I.** ASSESSMENT OF THE PRODUCTIVITY OF PLUM AND APPLE TREES, DEPENDING ON GROWING CONDITIONS AND GENOTYPE
50. **Nitu I., Mitelut A.C.** ECOTOXICOLOGICAL ASSESSMENT OF SOIL AFTER LONG-TERM EXPOSURE TO MONTMORILLONITE HYDROGELS

51. **Odobescu V., Erhan T., Jalba S., Smaglie V.** A BRIEF OVERVIEW OF AN INITIAL MONITORING TRIAL ON TOMATO LEAF MINER IN GREENHOUSES
52. **Onochie Nnaemeka D., Ivanišová E.** MEDICINAL HERBS AS IMPORTANT INGREDIENTS FOR INNOVATIVE CEREAL PRODUCTS
53. **Pesteanu A.** THE BEHAVIOR OF APPLES TREATED WITH THE ETHYLENE BIOSYNTHESIS INHIBITOR 1-MCP IN THE POST-HARVEST PERIOD
54. **Rotari E.** STUDYING THE POSSIBILITIES OF USING PHYSIOLOGICAL METHODS TO ASSESS HEAT RESISTANCE IN MAIZE BREEDING
55. **Rurac M.** THE CHALLENGES OF RESEARCHING CONSERVATION AGRICULTURE
56. **Samoilova A., Jelezneac T., Vornicu Z.** EFFECT OF ESSENTIAL OILS ON THE FIRE BLIGHT DEVELOPMENT IN THE IMMATURE FRUITS
57. **Sasco E., Leatamborg S.** EFFECTS OF DROUGHT AND HIGH TEMPERATURE ON SOME MORPHOLOGICAL TRAITS IN TRITICALE
58. **Scerbacova T.** APPLICATION OF BACTERIAL-FUNGAL SUSPENSION FOR PLANTS PROTECTION FROM PESTS IN GREENHOUSES
59. **Slanina V., Balan L., Ciloci A., Labluc S.** BACTERIA STRAINS WITH THE POTENTIAL TO SYNTHESIZE SUBSTANCES WITH ENHANCED ANTIMICROBIAL ACTIVITY
60. **Tian T., Lu W., Xu P.** PATHOGEN IDENTIFICATION AND SCREENING OF CONTROL AGENTS FOR BASAL STEM ROT OF *Schisandra chinensis*
61. **Volosciuc L.** BIOTECHNOLOGICAL APPROACHES TO COMBAT FOLIAR PHYTOPATOGENS OF VINE
62. **Zavatin M., Rusu I., Nastas T.** ANALYSIS OF SEASONAL POPULATION DYNAMICS OF *Halyomorpha halys* ON VARIOUS ORNAMENTAL PLANT SPECIES
63. **Zelya A., Zelya G., Makar T., Gavryluck A., Andriychuck T.** NEW POTATO VARIETIES FOR IDENTIFYING POTATO WART PATHOTYPES IN UKRAINE

E. CONSERVATION AND UTILIZATION OF GENETIC RESOURCES

64. **Alexandrov E.** AGRICULTURAL PLANT GENOTYPES - AN EFFICIENT METHOD OF CAPTURING CARBON FROM THE ATMOSPHERE
65. **Alexandrov E.** THE OIL CONTENT OF GRAPEVINE SEEDS
66. **Andriychuck T., Skoreiko A., Gavryluck A.** *Marssonina Juglandis* (Lieh.) ON RESISTANT AND SENSITIVE FORMS OF WALNUT
67. **Balmus Z., Cotelea L., Butnarus V.** CULTURE OF THE CLARY SAGE (*Salvia sclarea* L.) IN THE REPUBLIC OF MOLDOVA
68. **Butnarus V., Balmus Z., Cotelea L.** THE MAIN INDICATORS IN THE IMPROVEMENT OF F₁ HYBRIDS *Lavandula angustifolia* Mill.
69. **Chilinciuc A., Botnari V.** REPRODUCTION OF SEEDING MATERIAL FROM AERIAL BULBS IN GARLIC CULTURE
70. **Chilinciuc A., Botnari V.** SOME TECHNOLOGICAL FEATURES IN ESTABLISHING GARLIC CROP CULTURES
71. **Corlateanu L., Mihaila V., Ganea A.** STORAGE POTENTIAL OF PEPPER SAMPLES – AN INDICATOR OF THEIR LONGEVITY DURING *EX SITU* CONSERVATION
72. **Gadibadi M., Titei V., Gutu A., Daraduda N.** THE EVALUATION OF THE QUALITY INDICES OF STEM BIOMASS OF *Coriandrum sativum* AND PROSPECTS FOR ITS USE IN MOLDOVA
73. **Gladei M.** INTERSPECIFIC RHIZOGENIC GRAPEVINES FOR MODERN VITICULTURE
74. **Khomiak I., Onyshchuk I., Kychkyruk O., Vakerych M., Hasynets Y., Schwartau V.** SOIL ACIDITY AND VEGETATION CHANGES FOLLOWING STRIKE UAV IMPACTS
75. **Kovalova I., Muliukina N., Herus L., Skrypnik V., Fedorenko M., Kaliuzhnyi O.** HIGH-THROUGHPUT PHENOTYPING (HTP) IN TABLE GRAPE BREEDING
76. **Leatamborg S., Rotari S., Gore A.** CHARACTERISTICS OF THE NEW VARIETY OF WINTER TRITICALE FANICA
77. **Malii A., Harciuc O., Chistol M.** DEVELOPMENT OF SOYBEAN GENOTYPES WITH ENHANCED TOLERANCE TO THERMAL AND WATER STRESS UNDER CLIMATE CHANGE CONDITIONS
78. **Mihaila V., Ganea A., Brindza J.** EXPLORING THE EFFECT OF X-RAYS ON SEED GERMINATION OF SPECIES OF THE GENUS *Cuphea* P. Browne

79. **Moraru G., Cotenco E., Smirnova T.** IMPROVEMENT OF FOOD SORGHUM IN THE REPUBLIC OF MOLDOVA
80. **Romanciuc G.** TRENDS IN ACCESS AND BENEFIT-SHARING REGULATIONS FOR PLANT GENETIC RESOURCES
81. **Rotari S., Leatamborg S., Gore A.** CREATION OF WINTER DURUM WHEAT VARIETIES IN THE REPUBLIC OF MOLDOVA
82. **Sfecla I., Tofan-Dorofeev E., Sfecla V.** NEW FINDINGS OF *Serratula lycopifolia* (Vill.) A. Kern. AND *Trifolium pannonicum* Jacq. – RARE SPECIES IN THE FLORA OF THE REPUBLIC OF MOLDOVA
83. **Sfecla V., Sfecla I.** CONSERVATION OF GERMPLASM OF RARE SPECIES FROM THE "DOBRUSA" LANDSCAPE RESERVE
84. **Sichkar V., Lavrova H., Molodchenkova O.** GENETIC VARIABILITY OF POLYPHENOLS CONTENT IN SOYBEAN SEEDS
85. **Siromeatnicov I., Cotenco E., Paladi D.** MORPHOLOGICAL PARTICULARITIES OF NEW TOMATO LINES *Solanum lycopersicum* L. OBTAINED *in vitro*
86. **Siromeatnicov I., Cotenco E., Paladi D.** VARIABILITY OF QUANTITATIVE CHARACTERS IN TOMATO VARIETIES OBTAINED *in vitro*
87. **Sozinova O., Kozub N., Sozinov I., Blume Y.** ANALYSIS OF THE SECALOINDOLINE A GENE OF THE WILD RYE SPECIES *Secale sylvestre*
88. **Tabara M., Sfecla I.** PRELIMINARY STUDIES ON SEED BIOLOGY AND *in vitro* GERMINATION OF THE SPECIES *Cephalanthera damasonium* (Mill.) Druce WITH A VIEW TO *EX SITU* CONSERVATION
89. **Titei V., Andreoiu A., Blaj V.A., Gutu A., Tod M., Gadibadi M., Nazare A.I., Mazare V., Armas A.** THE BIOCHEMICAL COMPOSITION AND THE ECONOMIC VALUE OF THE SILAGE FROM *Silphium integrifolium*
90. **Sfecla I., Sabarov D., Slivca V.** THE POTENTIAL FOR COLLECTING GERMPLASM FROM RARE SPECIES CONSERVED *EX SITU* IN THE COLLECTIONS OF THE "AL. CIUBOTARU" NATIONAL BOTANICAL GARDEN (INSTITUTE)

8th edition of the National Conference with International Participation "Natural Sciences in the Dialogue of Generations"

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A. BIODIVERSITY, CLIMATE CHANGE AND BIOSECURITY

1. **Acatrinei L.** ECOPHYSIOLOGICAL ADAPTATIONS OF HALOPHYLOUS GRASSLAND PLANTS (NATURA 2000 SITES)
2. **Andronache I., Ciobotaru A.** WILDFIRES - DRIVER OF FOREST LOSS AND BIODIVERSITY INTEGRITY
3. **Anton F.G., Joita-Pacureanu M., Risnoveanu L., Contescu L.** SUNFLOWER CROP IN ROMANIA
4. **Balacci S., Balan I., Roșca N., Buzan V., Bacu G.** ANIMAL WELFARE: AN DOMAIN OF CONCERN
5. **Balan I., Ciochină V., Balacci S., Osipciuc G., Roșca N., Buzan V., Furdui V., Harea V., Cretu R., Turcanu P.** CORRELATIONS BETWEEN MAJOR ANTIOXIDANT SYSTEMS OF SEMEN
6. **Balmuş Z., Cotelea L., Butnaraş V.,** EARLY CLARY SAGE (*SALVIA SCLAREA* L.) VARIETY AMBRIELA
7. **Bivol I., Duca M.,** EVALUATION OF SUNFLOWER HYBRIDS' GENETIC POTENTIAL UNDER CLIMATE CHANGE IN MOLDOVA
8. **Bogdan A., Coltun M.** STUDY OF THE BIOMORPHOLOGICAL FEATURES OF THE SPECIES *ARTEMISIA STELLERIANA* BESSER UNDER THE CONDITIONS OF THE REPUBLIC OF MOLDOVA
9. **Bondus R., Mishchenko L., Rohovyi O., Hordiienko V., Hordiienko O.** WORKING ON THE CONSERVATION OF PLANT GENETIC RESOURCES OF UKRAINE
10. **Bunas A., Levishko A., Rovna H.** THE IMPACT OF FERTILIZATION AND CHEMICAL AMELIORATION ON MICROORGANISM ABUNDANCE AND CO₂ EMISSION IN SOD-PODZOLIC SOIL
11. **Buşmachi G., Efode V.** ANALYSIS OF SCELIONIDAE SPECIES (INSECTA: HYMENOPTERA) IN THE COLLECTION OF THE INSTITUTE OF ZOOLOGY, USM
12. **Buşmachi G., Petcu I.** CONTRIBUTIONS TO THE KNOWLEDGE OF SPECIES FROM THE GENUS *COLLETES* LATREILLE, 1802 (HYMENOPTERA: APOIDEA) IN THE REPUBLIC OF MOLDOVA
13. **Călugăr A.** EDAPHIC MESOFAUNA IN NATURA 2000 GRASSLANDS OF NORTHEASTERN ROMANIA
14. **Cergan M., Maturaru G., Partal E., Anton F.G.** CURRENT SITUATION OF THE INFESTATION DEGREE OF WEEDS IN SUNFLOWER CROP
15. **Chihai O., Tălămbuță N., Rusu Ș., Zamornea N.** PARASITIC SPECIES IDENTIFIED IN THE YELLOW-NECKED MOUSE
16. **Chițan R., Tabăra M., Ghereg M.** INDUCTION OF RHIZOGENESIS IN HIGHBUSH BLUEBERRY (*VACCINIUM CORYMBOSUM* L.) IN TISSUE CULTURE
17. **Cîrlig N.** *BUNIAS ORIENTALIS* L. IN THE COLLECTIONS OF THE "ALEXANDRU CIUBOTARU" NATIONAL BOTANICAL GARDEN (INSTITUTE)
18. **Climenco O.** EFFECT OF DROUGHT AND SALINITY ON THE CORRELATION AND VARIABILITY OF TRAITS IN MAIZE SEEDLINGS
19. **Colțun M., Bogdan A.** *EPILOBIUM ANGUSTIFOLIUM* L. – A PROMISING SPECIES WITH HIGH THERAPEUTIC POTENTIAL
20. **Corlateanu L., Mihaila V., Ganea A.** DETERMINATION OF THE STORAGE POTENTIAL OF FENUGREEK (*TRIGONELLA FOENUM-GRÆCUM* L.) SEEDS FROM THE ACTIVE COLLECTION OF THE PLANT GENE BANK
21. **Crețu I., Buşmachi G., Bacal S.** NEW DATA ON THE DIVERSITY OF COLEOPTERS (INSECTA: COCCINELLIDAE) IN ALFALFA CROP
22. **Cristea N.** DIVERSITY OF COMMON WHEAT COLLECTION GENOTYPES BASED ON PRODUCTIVITY ELEMENTS
23. **Curshunji D.** PROTEIN AND LIPID CONTENT IN CHICKPEA LINES (*CICER ARIETINUM* L.)
24. **Dobrojan S., Dobrojan G., Jigău G., Melnic V.** INFLUENCE OF ALGAL PREPARATION ON THE GERMINATION CAPACITY OF SUNFLOWER SEEDS
25. **Dobrojan S., Dobrojan G., Melnic C.** ANALYSIS OF THE GROWTH PROCESS OF THE CYANOBACTERIUM *NOSTOC GELATINOSUM* (SCHOUSB) ELENK. ON SOME NUTRIENT MEDIA
26. **Dobrojan S., Dobrojan G., Melnic V., Melnic A.** THE EFFECT OF WASTEWATER FROM *SPIRULINA PLATENSIS* CULTURE ON THE GERMINATION PROCESS OF *PANICUM MILIACEUM* L. SEEDS MAINTAINED IN COLLECTIONS
27. **Dudnicenco N.** THE USE OF THE BEECH TREE BY THE ROMANIAN PEOPLE

28. **Dudnicenco T.** APPLICATION OF ALGAE STRAINS PRODUCING BIOACTIVE SUBSTANCES IN ANIMAL HUSBANDRY AND CROP PRODUCT
29. **Enciu E.** CONTRIBUTIONS TO THE KNOWLEDGE ON COLEOPTERAN IN THE NATURAL BIOCEANOSES OF THE "ORHEI" NATIONAL PARK, REPUBLIC OF MOLDOVA
30. **Frunze N.** NEW PROKARYOTES IN THE CHERNOZEM OF THE REPUBLIC OF MOLDOVA
31. **Ganea A., Cutsitaru D., Mogilda A.** CONTRIBUTIONS ON THE STUDY OF THE CONSERVATION OF SOME CROP WILD RELATIVES IN THE ROSOȘENI FOREST NATURE RESERVE
32. **Ghereg M., Ciorchină N., Tabăra M., Chițan R., Fetcov M.** OPTIMIZATION OF THE CONDITIONS FOR IN VITRO INITIATION OF THE SPECIES STERNBERGIA COLCHICIFLORA
33. **Gošić-Dondo S., Ristić D., Delić N., Pavlov J., Konstadinović M., Popović Z.D.** TESTING THE EFFECTIVENESS OF PESTICIDES FOR SEED TREATMENT IN THE CONTROL OF WIREWORMS
34. **Gușan A., Tretiacova T., Todiras V., Popa A.** EFFECTIVENESS OF SULPHUR SC IN COMBATING THE COMMON MITE IN PROTECTED AREAS
35. **Guțu A., Țiței V., Cîrlig N.** SOME BIOLOGICAL FEATURES AND BIOCHEMICAL COMPOSITION OF BIOMASS FROM TALL FESCUE
36. **Iurcu-Străistaru E., Bivol A., Rusu Ș., Rusu V.** NEMATOLOGICAL RESEARCH ON SOYBEAN CULTURE IN THE CONDITIONS OF THE REPUBLIC OF MOLDOVA
37. **Jigău G., Dobrojan S., Dobrojan G., Moșoi I., Turchin B., Gaberi V.** THE SHARE OF VARIOUS FRACTIONS OF STRUCTURAL AGGREGATES IN THE STABILIZATION OF ORGANIC CARBON IN ARABLE CHERNOZEMS AND ITS EVOLUTION UNDER CONDITIONS OF SANO- AND PEDOREGENERATIVE TECHNOLOGIES
38. **Jigău G., Gaberi V., Dobrojan S., Dobrojan G.** MODERNIZED TECHNOLOGY TO MITIGATE SOIL DEGRADATION THROUGH FATIGUE IN NURSERY PLANTATIONS
39. **Jigău G., Sprâncean E., Dobrojan S., Dobrojan G.** COMPOSTING OF PLANT RESIDUES ON THE SOIL SURFACE: APPROACH, ARGUMENTATION, OPPORTUNITIES, AGROBIOLOGICAL ASPECTS
40. **Joita-Pacureanu M.,** THE PARASITE OROBANCHE CUMANA WALLR., IN SUNFLOWER CROP IN ROMANIA. INCREASED VIRULENCE AND METHODS OF CONTROL
41. **Leatamborg S., Rotari S., Gore A.** EVALUATION OF NEW TRITICALE LINES
42. **Malii A.** BIOCHEMICAL ASSESSMENT OF SOYBEAN GENOTYPES UNDER 2024 CLIMATIC CONDITIONS
43. **Mazur Z.** INHERITANCE AND MANIFESTATION OF PRODUCTIVITY AND SEED COLOUR TRAITS IN WINTER RYE
44. **Melian L., Ganea A.** CONSERVATION AND STUDY OF GENETIC DIVERSITY OF LOCAL POTATO VARIETIES SELECTED FROM PEASANT FARMS IN THE REPUBLIC OF MOLDOVA
45. **Mihai E., Iosageanu A., Gaspar-Pintilescu A., Oprita E.I., Coroiu V., Craciunescu O.** OPTIMIZATION OF BIOACTIVE COMPOUNDS EXTRACTION FROM ALOE VERA RESIDUES IN GREEN SOLVENTS
46. **Moroz M., Balan I., Matencu D., Cociu V., Ceban E., Starciuc N., Voinitchi E., Gurdis V.** PHYSIOLOGICAL PROPERTIES OF THE RABBITS BODY TO HEAT STRESS
47. **Muzafarov N., Ponurenko S., Kuzmyshina N., Barsukov I., Sikalova O.** PECULIARITIES OF GENOTYPIC VARIABILITY OF PRODUCTIVITY AND GRAIN QUALITY TRAITS IN SPECIALIZED INBRED MAIZE LINES
48. **Nargan T., Nakonechnyi M., Lyfenko S., Shcherbyna Z.** USE OF INTROGRESSIVE MATERIAL IN WINTER BREAD WHEAT BREEDING
49. **Nikolić V., Žilić S., Simić M., Sarić B., Milovanović D., Rafferty V.K.** OAT CULTIVARS WITH DIVERSE HUSK COLOURS AS PROSPECTIVE SOURCES OF PHYTOCHEMICALS FOR THE FUNCTIONAL FOOD SECTOR
50. **Nikolić V., Milovanović D., Žilić S., Simić M., Sarić B.** A SUSTAINABLE STRATEGY FOR UTILIZATION OF CORN SILK AS AGRICULTURAL WASTE WITH THE CONSERVATION OF MAIZE BIODIVERSITY—ESTABLISHING A COMPREHENSIVE FRAMEWORK FOR ECOLOGICAL BALANCE AND ECONOMIC SUSTAINABILITY
51. **Novac T., Strâmbanu T.** AGROBIOLOGICAL STUDY OF LETTUCE HYBRIDS (LACTUCA SATIVA L.) IN HYDROPONIC CULTURE
52. **Onica E., Roșca I., Cutcovschi-Muștuc A.** MOBILIZATION AND CONSERVATION OF NEW CULTIVARS OF ELAEAGNUS UMBELLATA THUNB

53. **Paladi I.** SUNFLOWER MONOCULTURE IN THE CONTEXT OF CLIMATE CHANGE IN THE SOUTHERN AREA OF THE REPUBLIC OF MOLDOVA
54. **Partal E., Contescu E.L., Cergan M.** YIELDS AND QUALITY OF MAIZE UNDER THE INFLUENCE OF MANAGEMENT PRACTICES
55. **Popa A., Todiras., Gușan A., Sitnic V.** EFFICACY OF SOME SULFUR PRODUCTS IN COMBATING POWDERY MILDEW ON GRAPES
56. **Pysarenko N., Zakharchuk N., Oliynyk T.** DEVELOPMENT OF POTATO VARIETIES RESISTANT TO QUARANTINE ORGANISMS
57. **Roșca I., Tanachi T., Onica E., Cutcovschi-Muștuc A.** THE BIOLOGY OF FLOWERING AND FRUITING IN BERBERIS THUNBERGII DC. CULTIVARS
58. **Rotari S., Leatamborg S., Gore A.** NASTIA - A NEW VARIETY OF WINTER DURUM WHEAT FOR MOLDOVAN AGRICULTURE
59. **Rudacova A., Cherdivara A., Rudacov C.** CHANGES IN THE TOTAL COMPOSITION OF PROTEINS IN SUNFLOWER SEEDLINGS UNDER THE INFLUENCE OF DROUGHT
60. **Russu S., Șarban V., Bilici I.** PROCESS FOR FORMING CHERRY TREES IN THE SHAPE OF AN IMPROVED SLENDER SPINDLE
61. **Simion P.S., Popescu G., Joița-Păcureanu M., Todirică I.C., Petcu V.** DOMESTIC BIODIVERSITY IN ROMANIA FROM AGRARIAN EPOCHS TO THE CONSERVATION OF INDIGENOUS GENETIC RESOURCES
62. **Sitnic V.** REGULATORY FACTORS OF THE REPRODUCTION PROCESS IN MICROTIN SPECIES
63. **Tabaković M., Kravić N., Perić V., Babić V., Sečanski M., Stanisavljević R., Oro V.** TRADITIONAL APPROACHES FOR PRESERVING AGROBIODIVERSITY IN CROP SYSTEMS
64. **Terteza A., Busmachiu G.** ANALYSIS OF ENTOMOLOGICAL COLLECTIONS OF SYRPHIDAE (INSECTA: DIPTERA) IN THE REPUBLIC OF MOLDOVA
65. **Tudor A.A.** CLIMATE CHANGE AND BIODIVERSITY LOSS: EMERGING RISKS AND INTEGRATED RESPONSES
66. **Voineac I., Gladei D.** VEGETATION PECULIARITIES OF MINIATURAL DAFFODILS (NARCISSUS L.)
67. **Zubcu I., Todiraș V.** TESTING THE EFFICACY OF THE PREPARATION CARBERCOL AGAINST CLASTEROSPORIUM (CLASTEROSPORIUM CARPOPHILUM) OF PLUM

B. GREEN CHEMISTRY AND SUSTAINABLE TECHNOLOGIES

68. **Batanov A., Pogrevnoi V., Sucman N., Macaev F.** SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF ADDUCTS OF (Z)-METHYL 2-(1-(3-CHLOROBUT-2-EN-1-YL)-2-OXOINDOLE AND ACRYLATE IN CONDITIONS OF MBH REACTION
69. **Batanov A., Pogrevnoi V., Sucman N., Macaev F.** SYNTHESIS, SEPARATION AND STRUCTURAL CHARACTERIZATION OF 1-(3-CHLOROBUT-2-EN-1-YL)INDOLINE-2,3-DIONE E/Z-ISOMERS
70. **Bunduchi E., Mocanu L.** REDOX-CATALYTIC TRANSFORMATION OF PERSISTENT TEXTILE DYES IN SIMULATED NATURAL AQUATIC ENVIRONMENTS
71. **Ciobanu N., Macaev F.** ECOLOGICAL CATALYSIS OF THE SYNTHESIS OF SOME DIHYDROPYRIMIDINE DERIVATIVES
72. **Cuba L., Bourosh P., Bulhac I.** SYNTHESIS AND STRUCTURE OF NEW COORDINATION COMPOUNDS OF Zn(II) AND Cd(II) WITH N-DERIVATED OF PHTHALAZINE
73. **Cuba L., Bourosh P., Bulhac I.** SYNTHESIS AND CRYSTAL STRUCTURE OF NOVEL COMPLEX OF Co(III) WITH O-PHTHALIC DICARBOXALDEHYDE BIS(ISONICOTINOYL HYDRAZONE)
74. **Curiev L.** IMEX 2023-F-9-SC FOR CONTROL OF THE APPLE SCAB ON FRUITS
75. **Feldman D., Bilan D., Jalba A., Gheorghe D., Macaev F.** SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF 2-((BUTYLAMINO)(2-HYDROXY-5-NITROPHENYL)METHYL)-3-HYDROXYNAPHTHALENE-1,4-DIONE
76. **Gladchi V., Blonschi V., Cisteacov M., Lis A., Duca G.** CHEMICAL DEGRADATION OF VITAMIN B6 IN THE AQUATIC ENVIRONMENT
77. **Kirchuk Y., Lytvynenko N., Vasyliov O., Holub Y.** EFFICIENCY OF COMBINING LR-GENES IN WHEAT BREEDING FOR DURABLE RESISTANCE
78. **Lis A., Gladchi V., Bunduchi E.** OBTAINING AND EVALUATION OF CANNABIS SATIVA SEEDS EXTRACT AS AN INGREDIENT IN COSMETIC PRODUCTS
79. **Lupascu L., Lupascu G., Macaev F.** ANTIFUNGAL ACTIVITY OF A VINYL-TRIAZOLE DERIVATIVE AGAINST *FUSARIUM LATERITUM*

80. **Mocanu L., Gonta M., Leontiva L.** CATALYTIC DEGRADATION OF SODIUM DODECYLBENZEN ESULFONATE: A COMPARATIVE ASSESSMENT OF FENTON AND PHOTO-FENTON OXIDATION
81. **Perić V., Kostadinović M., Tabaković M., Ristić D., Nikolić V., Simić M., Živković I.** PERFORMANCE OF SOYBEAN VARIETIES GROWN IN ORGANIC AND CONVENTIONAL SYSTEMS
82. **Povar I., Spînu O., Bolocan N.** INVESTIGAȚIE TERMODINAMICĂ A INTERACȚIUNILOR SINERGICE ȘI ANTAGONISTE ÎN EXTRAȚIA METALELOR ÎN SISTEMLER LICHID - LICHID
83. **Povar I., Spînu O.** MODELARE TERMODINAMICĂ A INTERACȚIUNILOR FIZICO-CHIMICE ÎN ECOSISTEME ACVATICE MULTICOMPONENTE ETEROGENE
84. **Snizhok O.** SPECIES COMPOSITION OF WEED COENOSIS IN SUNFLOWER CROPPING IN THE WESTERN POLISSIE ZONE

C. GENOMICS AND ADVANCED BIOTECHNOLOGIES IN AGRICULTURE, INDUSTRY AND ECONOMY

85. **Anton F.G., Joița-Păcureanu M., Risnoveanu L., Sava E., Cergan M., Partal E.** RACES OF PARASITE OROBANCHE CUMANA WALLER PRESENT IN SOME AREAS FROM ROMANIA IN YEAR 2024
86. **Bahsiev A., Zamorzaeva E., Mihnea N.** LONG-TERM MOLECULAR TESTING THE SPREAD OF TOMATO STOLBUR IN MOLDOVA
87. **Butnaraș V., Balmuș Z., Cotelea L.** RESULTS OBTAINED FROM THE EVALUATION OF LAVENDER VARIETIES - CLONES
88. **Ciloci A., Clapco S., Labluc S., Dvornina E.** FE3O4 NANOPARTICLES AS BIOSTIMULATOR OF LIPASES SYNTHESIS IN THE FUNGAL STRAIN FUSARIUM NIVALE FD 13L
89. **Cotelea L., Balmuș Z., Butnaraș V.** VALUABLE F3-F4 HYBRIDS OF SALVIA SCLAREA L., WITH QUANTITATIVE CHARACTERS
90. **Cuțitaru D., Ganea A., Brindza J.** EVALUATION OF LINSEED POPULATION ACCORDING TO PHENOTYPE AND MAIN ECONOMIC VALUE INDICATORS
91. **Ezerina E.M., Chesnokov Y.V.** INFLUENCE OF PHOTOPERIOD ON PRODUCTIVITY AND SPECTRAL INDICES OF LEAF BLADES OF GARDEN CRESS SAMPLES GROWN UNDER LIGHT CULTURE CONDITIONS
92. **Iftime A.C., Boz I.** UNVEILING THE INTERNAL STRUCTURES OF SOME CULTIVATED ORCHIDS: A HISTO-ANATOMICAL PERSPECTIVE
93. **Kostadinović M., Ristić D., Perić V., Milovanović M., Ignjatović-Micić D., Vančetović J.** MARKER ASSISTED SELECTION: BIOCHEMICAL EVALUATION OF QPM HYBRID
94. **Kurach O.** INFLUENCE OF VARIETIES AND ORGANO-MINERAL FERMENTATION ON THE PRODUCTIVITY OF WINTER RAPE IN THE CONDITIONS OF THE WESTERN FOREST-STEP OF UKRAINE
95. **Lisova H., Rymar Y., Morgun B.** RESISTANCE OF SPRING WHEAT SPECIES TO POWDERY MILDEW AND SEPTORIA LEAF BLOTCH
96. **Lisova H., Konovalova S.** RESISTANCE OF WINTER WHEAT VARIETIES TO A GROUP OF LEAF DISEASE PATHOGENS
97. **Molodchenkova O., Mishchenko L., Dunich A., Tykhonov P., Motsnyi I., Fanin Y.** RESEARCH OF WHEAT PEROXIDASE ISOZYMES IN CONNECTION WITH RESISTANCE TO BARLEY YELLOW DWARF VIRUS
98. **Musleh M., Erhan T.** TESTING OF NATURAL COMPOUNDS AS SYNERGISTS OF THE SYNTHETIC SEX PHEROMONE OF THE CODLING MOTH CYDIA POMONELLA
99. **Petcu E., Vasilescu L.** MORPHOMETRIC SEED VARIABILITY IN WINTER TWO-ROWED BARLEY UNDER DIFFERENT GROWING CONDITIONS
100. **Pintilia S., Anton F.G., Petcu E.** BIOFERTILIZERS IN SUNFLOWER (HELIANTHUS ANNUUS L.) CULTIVATION: STRAINS, EFFECTS, AND APPLICATIONS
101. **Popovschi E., Ivanova R., Mascenco N.** INFLUENCE OF NATURAL BIOREGULATOR JS ON STARCH CONTENT CONSUMED DURING CORN SEEDS GERMINATION
102. **Port A.** THE ROLE OF SOME RECEPTOR-LIKE KINASES IN EARLY ANTHER DEVELOPMENT IN SUNFLOWER
103. **Ristić D., Perić V., Dondo S.G., Kostadinović M.** BIOCHEMICAL EVALUATION OF BLACK AND BROWN SOYBEAN GENOTYPES
104. **Sidakova O.** THE EFFECT OF ANTIVIRAL DRUGS RIMANTADINE AND ARBIVIR ON THE IMPROVEMENT OF POTATO VARIETIES

D. APPLIED PHYSICS AND EMERGING TECHNOLOGIES

105. Beleaev E., Kravtsov V.C., Baca Svetlana G. PENTANUCLEAR COBALT(II,III) CLUSTER WITH PIVALATE, TRIETHANOLAMINE AND AZIDE LIGANDS
106. Craciun N., Melnic E., Fonari M.S. SYNTHESIS AND CRYSTAL STRUCTURE OF A NEW Zn(II) METAL-ORGANIC COMPOUND WITH THE BENT DITOPIC 4,4'-DIAMINODIPHENYLMETHANE LIGAND
107. Gorobet A., Croitor L., Melnic E. HYDRAZIDE-DIRECTED ASSEMBLY IN A ZN(II) COORDINATION POLYMER: CRYSTALLOGRAPHIC AND HIRSHFELD SURFACE STUDY
108. Podgornii D., Lausen J., Kögerler P., Kravtsov V.C., Baca S.G. HETEROMETALLIC {Fe₅Ln₄} PIVALATE CLUSTERS

E. MATHEMATICAL MODELING, INFORMATION TECHNOLOGIES, ARTIFICIAL INTELLIGENCE AND BIG DATA IN NATURAL SCIENCES

109. Duca M., Martea R., Clapco S., Mihai E. FLAVONOIDS IN PLANT STRESS ADAPTATION: GLOBAL RESEARCH PERSPECTIVES AND SUNFLOWER CASE STUDIES
110. Lisitsyn V.I., Novikova T.P., Novikov A.I., Chesnokov Y.V. FEATURES OF THE EMPIRICAL-THEORETICAL APPROACH TO THE MODELING OF *Pinus sylvestris* L. STANDS IN EURASIA
111. Mohamed A.E.E. THE ROLE OF BIOINFORMATICS IN LIVESTOCK PRODUCTION IMPROVEMENT: APPLICATIONS IN ANIMAL GENETICS AND BREEDING

F. HUMAN HEALTH AND TRANSLATIONAL MEDICINE

112. Bacalov I., Crivoi A., Chirița E., Druța A., Ulinici M. REGULATION OF KETONURIA IN EXPERIMENTAL DIABETES BY SEV-3 EXTRACT ADMINISTRATION
113. Benea A. CHEMICAL CHARACTERIZATION OF TRIFOLIUM L. SPECIES FROM THE FLORA OF THE REPUBLIC OF MOLDOVA
114. Burzacovschi V., Elenciu D., Duca M. MULTILATERAL CHARACTERIZATION OF PATIENTS WITH CHRONIC HCV INFECTION
115. Calalb T., Uncu L., Lozinski M. THE PERSPECTIVE OF LEARNING THROUGH BIOTECHNOLOGICAL RESEARCH FOR STUDENTS OF THE FACULTY OF PHARMACY, NICOLAE TESTEMITANU SUMPH
116. Căpraga V., Cîrstea O., Horodîșteanu-Banuș A., Bujor D., Hadjivu S., Revenco N. THE ROLE OF THE ENVIRONMENT IN THE OCCURRENCE OF DEVELOPMENTAL DELAYS IN CHILDREN
117. Chirița E., Melnic V., Crivoi A., Bacalov I., Druța A. ALTERATIONS IN GLUCOSURIA AND GLYCEMIA IN EXPERIMENTAL DIABETES FOLLOWING ADMINISTRATION OF VANN EXTRACT
118. Duca M., Prelipcean A.M., Mutu A., Craciunescu O., Clapco S. SUNFLOWER POLLEN AS A NATURAL SOURCE OF ANTIOXIDANTS AND ITS THERAPEUTIC POTENTIAL
119. Ionescu C., Visternicu M., Rarinca V., Ciobica A., Plavan G., Nicoara M.N. THE IMPACT OF INORGANIC ARSENIC EXPOSURE ON ANXIETY-LIKE BEHAVIOR IN ZEBRAFISH (DANIO RERIO): INSIGHTS FROM THE NOVEL TANK TEST
120. Nartea M., Ohindovschi A., Copolovici L., Copolovici D.M., Lupitu A., Moisa C., Bortes Flavia., Cojocarutoma M. ULTRASOUND ASSISTED EXTRACTION AND QUANTITATIVE DETERMINATION OF POLYPHENOL COMPOUNDS IN SPECIES OF THE GENUS HELICHRYSUM
121. Nartea M., Ohindovschi A., Copolovici L., Copolovici D.M., Lupitu A., Moisa C., Bortes Flavia., Cojocarutoma M. QUANTITATIVE DETERMINATION OF CHLOROPHYLL A AND B IN HERBAL PRODUCT OF HELICHRYSUM SPECIES
122. Orescu C., Elenciu D., Duca M. IDENTIFICATION OF HUMAN PAPILLOMAVIRUS (HPV) GENOTYPES
123. Rarinca V., Ionescu C., Visternicu M., Ciobica Alina., Nicoara M.N. ACUTE COMBINED EXPOSURE TO ARSENIC AND AMPICILLIN ALTERS LOCOMOTOR AND SOCIAL BEHAVIOR IN ZEBRAFISH (DANIO RERIO)
124. Secu D., Blanita D., Usurelu N., Sacara V. INTEGRATING qPCR-HRM AND mtDNA SEQUENCING IN MITOCHONDRIAL DISEASE DIAGNOSIS
125. Tolstenco D., Leorda A. OPTIMIZATION OF THE NUTRIENT MEDIUM FOR LACTIC ACID BACTERIA USING ARTEMISIA ABSINTHIUM INFUSION
126. Visternicu M., Savuca A., Ionescu C., Rarinca V., Burlui V., Ciobica A. ANALYSIS OF BEHAVIORAL TOXICITY OF TARTRAZINE USING THE DANIO RERIO ANIMAL MODEL

