



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



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. Institute for Legal, Political and Sociological Research, 3/2 Academiei Street, room 18 Section 5. Institute of Zoology, 1 Academiei Street, room 321 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
09 ⁰⁰ – 12 ³⁰	POSTER SESSION Scientific (Institute) Library “Andrei Lupan”, 1st Floor Lobby, 5A Academiei Street 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
12 ³⁰ – 13 ⁰⁰	
13 ⁰⁰ – 14 ⁰⁰	
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=EnFbPa5b2D9xvpDioFqYseOnGQMTrt.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
- Joită-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 Grigori, 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 Liliana**, *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**, *Cumpanici 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.**, **Raievskia 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=w9sJU193DlFjUjZpZCZpZCUAtNld6sbU.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, **Brinza 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=w9sJU193DlFJjCDzPc0CUAtnUd6sbU.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 Nataliia, 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: Institute for Legal, Political and Sociological Research, 3/2 Academiei Street, room 18

Online connection link:

<https://us06web.zoom.us/j/84720634521?pwd=mxmxmqlk898rpaC516vPD7oEppfyb8.1>

Meeting ID: 847 2063 4521, Passcode: 024123

1. **Rakhmetov DzhamaI, M.M.** *Gryshko National Botanical Garden, NASU, Kyiv, Ukraine*
Conservation, Enrichment and Use of New Phytogetic Resources in Ukraine
2. **Bondarchuk Oleksandr,** Rakhmetov DzhamaI, 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,** Bancila 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, Banciuc 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. **SfecIa 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. Bolany, Chernivtsi

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**, Nistoreanu 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 Țaul
7. **Nemerenco Olese**a (*PhD student, 3th year*), Nastas Tudor, IGPPP, *MSU*
Climate change and its impact on the development of the cotton bollworm *Helicoverpa armigera* Hbn
8. **Nistoreanu 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*), Mînzat 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., Liaschenko 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*), Zinicovscaia 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*), Șeptitchi 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, Vatavu 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, Vatavu 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. **Ieşeanu 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. **Cuzneţov 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. **Ieşeanu 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. **Muşinschi 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 Ialpuş 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 Ştefan, Morar Cezar, Dudaş 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 Ştefan, 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 Cimişlia 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”, 1st Floor Lobby, 5A Academiei Street
14 ⁰⁰ – 15 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., Nisteanu 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., Sütyemez 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., Corcimaru 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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8th edition of the National Conference with International Participation "Natural Sciences in the Dialogue of Generations"

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