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**MOLDOVA STATE UNIVERSITY**  
**Center of Functional Genetics, Faculty of Biology and Geosciences**  
**Doctoral School in Biological, Geonomic, Chemical and Technological Sciences**  
**Scientific Association of Geneticists and Breeders of the Republic of Moldova**

# **NATURAL SCIENCES IN THE DIALOGUE OF GENERATIONS**

*The National Conference with international participation, edition VI*

*September 14-15, 2023, Chisinau, Republic of Moldova*

## **PROGRAMME**

*Chisinau, 2023*

Dear

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**We are pleased to invite you to the scientific conference  
“NATURAL SCIENCES IN THE DIALOGUE OF GENERATIONS,  
which will take place on September 14-15, 2023**

**Venue: *Moldova State University,  
Conference Hall „Regina Maria”,  
60 Alexei Mateevici str.***

## ORGANIZERS

Moldova State University  
Center of Functional Genetics, Faculty of Biology and Geosciences  
Doctoral School in Biological, Geonomic, Chemical and Technological Sciences  
Scientific Association of Geneticists and Breeders of the Republic of Moldova

## SCIENTIFIC COMMITTEE

### Chair

DUCA Maria, Prof. Dr. hab. sci., Republic of Moldova

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BEJENARU Luminita, „Alexandru Ioan Cuza” University of Iași, Romania  
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COGĂLNICEANU Dan, Ovidius University of Constanta, Romania  
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GACEU Ovidiu Razvan, University of Oradea, Romania  
GLADCHI Viorica, Moldova State University, Republic of Moldova  
ION Viorel, USAMV Bucharest, Romania  
JOITA-PACUREANU Maria, NARDI-Fundulea, Romania  
KAYA Yalcin, Trakya University, Plant Breeding Research Center, Turkey  
MEREUTA Ion, Moldova State University, Republic of Moldova  
NICOARA Mircea Nicusor, „Alexandru Ioan Cuza” University of Iași, Romania  
ROSCA Ion, Moldova State University, Republic of Moldova  
SOCHIRCA Vitalie, Moldova State University, Republic of Moldova  
UNGUREANU Laurentia, Institute of Zoology, MSU, Republic of Moldova  
ZHAO Jun, Inner Mongolia Agricultural University, China

## ORGANIZING COMMITTEE

### Chair

DUCA Maria, Prof. Dr. hab. sci.

### Members

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BOIAN Ilie, Moldova State University  
BURCOVSCHI Ion, Moldova State University  
CLAPCO Steliana, Moldova State University  
DOMENCO Rodion, Moldova State University  
MUTU Ana, Moldova State University  
PORT Angela, Moldova State University  
SEVERIN Maricela, Moldova State University

# PROGRAMME

SEPTEMBER, 14

*Moldova State University,  
Conference Hall „Regina Maria”, 60 Alexei Mateevici Str.*

09<sup>00</sup> – 10<sup>00</sup> REGISTRATION

10<sup>00</sup> – 11<sup>00</sup> OPENING CEREMONY

11<sup>00</sup>-11<sup>30</sup> *Coffee break*

## PLENARY SESSION

Chairs: **SOCHIRCA Vitalie, GLADCHII Viorica, CLAPCO Steliana**

*Conference Hall „Regina Maria”, 60 Alexei Mateevici str.*

11<sup>30</sup> – 11<sup>45</sup> **Batiru Grigori**, Cojocari Dumitru, Comarova Galina  
PROSPECTIVES OF DEVELOPING SPECIALTY MAIZE GERMLASM, *Faculty of Agricultural, Forestry and Environmental Sciences, Technical University of Moldova, Chisinau, Moldova*

**Calalb Tatiana**, Benea A., Goncariuc M., Balmus Z., Pompus I., Fursenco C., Chisnicean L., Butnaraş V., Cotelea L.

11<sup>45</sup> – 12<sup>00</sup> BIOLOGICAL AND PHYTOCHEMICAL STUDIES ON SOME PLANT SPECIES FROM THE MEDICINAL PLANT COLLECTIONS OF THE USMF, *State University of Medicine and Pharmacy “Nicolae Testemitanu”, Chisinau, Republic of Moldova*

**Pacureanu Maria Joita**, Popescu Gabriel, Ciomei Laurentiu, Risnoveanu Luxita, Anton Florin-Gabriel, Sava Elisabeta

12<sup>00</sup> – 12<sup>15</sup> RELEASING SUNFLOWER GENOTYPES HAVING CHARACTERISTICS WHICH CONFER GOOD SUITABILITY FOR CULTIVATION IN DIFFERENT SYSTEMS FOR A DURABLE AGRICULTURE IN PRESENT SITUATION OF CLIMATE CHANGE CONDITIONS, *National Agricultural Research and Development Institute, Fundulea, Romania*

Shevchenko Larisa, **Vasylenko Antonina**, Vus Nadiia

12<sup>15</sup> – 12<sup>30</sup> COMPARISON OF THE LEVEL OF DEPRESSION OF PEA UNDER HEAT AND DROUGHT STRESS, *V. Ya. Yuriev Plant Production Institute of National Academy of Agrarian Sciences of Ukraine, Kharkiv, Ukraine*

**Vlasceanu Gabriela**, Petculescu Nicole

12<sup>30</sup> – 12<sup>45</sup> CIRCULAR ECONOMIC RECOVERY OF ORGANIC CERTIFIED CULTURE OF SEA BUCKTHORN, *Bioterra University of Bucharest, Bucharest, Romania*

13<sup>00</sup> – 14<sup>00</sup> **DISCUSSIONS**

## SEPTEMBER, 15

*Thematic session A:*

### PLANT GENETICS, BREEDING AND PROTECTION

Chairs: **ANDRONIC Larisa, LUPASCU Galina, VOLOŞCIUC Leonid**

*Institute of Genetics, Physiology and Plant Protection, MSU, Conference Hall, 20 Padurii str.*

09<sup>00</sup> – 09<sup>15</sup> **Pintea Maria**, Cozmic Radu, Bujoreanu Nicolae  
PROPERTIES OF SOME LATE RIPENING PLUMS IN THE CONDITIONS OF THE REPUBLIC OF MOLDOVA, *Research and Practical Institute of Horticulture and Alimentary Technologies, Moldova*

09<sup>15</sup> – 09<sup>30</sup> **Risnoveanu Luxita**, Oprea Daniela, Joiţa-Păcureanu Maria, Brăilă Marian  
THE INFLUENCE OF TILLING ON WATER ACCUMULATION AND BIOMASS DEVELOPMENT OF SUNFLOWER PLANTS IN THE DROUGHT AND HOT CONDITIONS OF SOUTHEAST ROMANIA, *Research Center for Sustainable Development, Bucharest, Romania*

09<sup>30</sup> – 09<sup>40</sup> **Bahsiev Aighiuni**, Zamorzaeva Irina, Mihnea Nadejda  
DISTRIBUTION OF 'CANDIDATUS PHYTOPLASMA SOLANI' IN LOCAL TOMATO VARIETIES, *IGPPP, MSU, Chisinau, Moldova*

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| 09 <sup>40</sup> – 09 <sup>50</sup> | <b>Bulduc A.</b> , Saltanovici T., Andronic L., Antoci L.<br>THE PARTICULARITIES OF THE TOMATO MALE GAMETOPHYTE IN CONDITIONS OF WATER DEFICIENCY, <i>IGPPP, MSU, Chisinau, Moldova</i>   |
| 09 <sup>50</sup> – 10 <sup>00</sup> | <b>Burcovschi Ion</b> , Clapco Steliana, Duca Maria<br>THE EFFECTS OF <i>O. CUMANNA</i> INFECTION ON SUNFLOWER SEED YIELD, <i>MSU, Chisinau, Moldova</i>  |
| 10 <sup>00</sup> – 10 <sup>10</sup> | <b>Cassir Polina</b> , Izverscaea Tatiana, Ghendov V.<br>THE DISTRIBUTION OF NEW VASCULAR PLANT SPECIES IN THE VALLEY OF THE LOWER PRUT, <i>Scientific reserve „Lower Prut”, Slobozia Mare, Moldova</i>   |
| 10 <sup>10</sup> – 10 <sup>20</sup> | <b>Graidieru Cristina</b> , Bilici Elena<br>CORRELATION BETWEEN FUNGAL INFECTION OF <i>FUSARIUM</i> spp. AND <i>ASPERGILLUS</i> spp. IN MAIZE SILKS AND KERNELS, <i>IGPPP, MSU, Chisinau, Moldova</i>   |
| 10 <sup>20</sup> – 10 <sup>30</sup> | <b>Cristea Nicolae</b> , Gavzer Svetlana, Lupascu Lucian, Timbaliuc Nina, Lupascu Galina<br>THE PROTECTIVE ACTIVITY OF THE TANNINS FROM BLACK TEA AGAINST <i>FUSARIUM</i> spp. <i>IGPPP, MSU, Chisinau, Moldova</i>   |
| 10 <sup>30</sup> – 10 <sup>40</sup> | <b>Ghereg Melania</b><br>MOBILIZATION OF THE SPECIES <i>GALANTHUS PLICATUS</i> BIEB. THROUGH <i>IN VITRO</i> CULTURE, „ <i>AI. Ciubotaru” National Botanical Garden (Institute), MSU, Chisinau, Moldova</i>   |
| 10 <sup>40</sup> – 10 <sup>50</sup> | <b>Bardan Marius Vasile</b> , Talmaciu Mihai<br>INTEGRATED PEST MANAGEMENT IN DECIDUOUS AND RESINOUS FORESTS IN NEAMŢ COUNTRY, <i>University of Life Science, Iasi, Romania</i>   |
| 10 <sup>50</sup> – 11 <sup>00</sup> | <b>Lungu Andrei</b> , Volosciuc Leonid<br>ASPECTS OF <i>SACCHAROPOLYSPORA SPINOSA</i> CULTIVATION AND SPINOSAD SEPARATION, <i>IGPPP, MSU, Chisinau, Moldova</i>   |
| 11 <sup>00</sup> – 11 <sup>10</sup> | <b>Nemerenco Olesea</b> , Nastas Tudor<br>THE PEST MONITORING OF <i>HELIOTHIS ARMIGERA</i> Hbn. THROUGH THE USE OF LIGHT TRAPS, <i>IGPPP, MSU, Chisinau, Moldova</i>  |
| 11 <sup>10</sup> – 11 <sup>20</sup> | <b>Rusu Iuliana</b> , Nastas Tudor, Zavatin Maria<br>TEST VARIOUS DESIGNS OF PHEROMONE TRAPS TO MONITORING THE BROWN MARMORATED STINK BUG <i>HALYOMORPHA HALYS</i> STAL, <i>IGPPP, MSU, Moldova</i>   |
| <b>POSTER SESSION</b>               |   |
|                                     | 1. Anton F. G., Joita-Pacureanu M., Risnoveanu L., Oprea D. SUNFLOWER BREEDING FOR BROOMRAPE RESISTANCE, <i>NARDI, Fundulea, Romania</i>  |
|                                     | 2. Batiru G., Comarova G., Cojocari D., Bounegru S., Adamciuc A., Rotari E., ZEIN POLYMORPHISM IN THE AID OF MAIZE SEED CERTIFICATION, <i>Technical University of Moldova, Chisinau, Moldova</i>  |
|                                     | 3. Mishchenko L., Dunich A., Dashchenko A., Mishchenko I., Ryshchakova O., Bezkrovna L., IMPACT OF WHEAT DWARF VIRUS ON REDOX REACTIONS AND DEFENSE RESPONSES IN WHEAT, <i>Plant Breeding and Genetics Institute-National Center of Seed and Cultivar Investigation, Odesa, Ukraine</i>                   |
| 11 <sup>20</sup> – 11 <sup>45</sup> | 4. Molodchenkova O., Mishchenko L., Dunich A., Dashchenko A., Mishchenko I., Ryshchakova O., Bezkrovna L., IMPACT OF WHEAT DWARF VIRUS ON REDOX REACTIONS AND DEFENSE RESPONSES IN WHEAT, <i>Plant Breeding&amp;Genetics Institute-National Center of Seed and Cultivar Investigation, Odesa, Ukraine</i> |
|                                     | 5. Temnicov E., Grigorov T., Andronic L., Marii L., Smerea S., EVALUATION OF THE MORPHOLOGICAL EXPRESSION OF THE BRANCHED SPIKE MUTATION IN SPRING BARLEY SOMACLONES, <i>IGPPP, MSU, Chisinau, Moldova</i>  |
|                                     | 6. Makovei Milania, MUTANT GENES CONTROLLING TRAITS OF THE REPRODUCTIVE SYSTEM OF TOMATO, <i>IGPPP, MSU, Chisinau, Moldova</i>  |

**Thematic session B:**  
**PLANT, ANIMAL AND MICROBIAL BIOTECHNOLOGY**  
Chairs: **CEPOI Liliana, CHIRIAC Tatiana, SÎRBU Tamara**

*Institute of Microbiology and Biotechnology, 1 Academy str., room 253*

**09<sup>00</sup> – 09<sup>10</sup>** **Bacu Gheorghe**, Balacci Sergiu, Crețu Roman  
THE PROSPECTS FOR ARTIFICIAL INSEMINATION OF QUEEN BEES, *Institute of Physiology and Sanocreatology, MSU, Chisinau, Moldova*

**09<sup>10</sup> – 09<sup>20</sup>** **Balacci Sergiu**, Crețu Roman, Bacu Gheorghe  
INFLUENCE OF TEMPERATURE AND FOOD FACTOR ON SALINE METABOLISM IN CATTLE, *Institute of Physiology and Sanocreatology, MSU, Chisinau, Moldova*

**09<sup>20</sup> – 09<sup>30</sup>** **Crețu Roman**, Bacu Gheorghe, Balacci Sergiu  
THE USE OF ARTIFICIAL INSEMINATION IN INDUSTRIAL RABBIT BREEDING, *Institute of Physiology and Sanocreatology, MSU, Chisinau, Moldova*

**09<sup>30</sup> – 09<sup>40</sup>** **Ciobanu Eugeniu**, Nedbaliuc Boris, Grigorcea Sofia, Botezatu Ion, Ureche Dumitru  
THE INFLUENCE OF THE COORDINATING COMPOUND WITH BARIUM ON THE PRODUCTIVITY OF THE MICROALGAE CHLORELLA VULGARIS BEIJER, „Ion Creanga” State Pedagogical University, Moldova

**09<sup>40</sup> – 09<sup>50</sup>** **Chalișava Omari**, Zinicovscaia Inga, Cepoi Liliana  
FIRST STEPS IN EVALUATING THE ROLE OF WIND-BLOWN DUST IN MOSS BIOMONITORING, *Joint Institute for Nuclear Research, Dubna, Russian Federation*

**09<sup>50</sup> – 10<sup>00</sup>** **Magaz Pavel**  
BAKER'S YEAS – APPLICATIONS, CHALLENGES, PROGRESS, AND PROSPECT TECHNOLOGIES, *MSU, Chisinau, Moldova*

**10<sup>00</sup> – 10<sup>10</sup>** **Moldovan Cristina**  
DIVERSITATEA MICROMICETELOR DIN LACUL VALEA MORILOR (MUNICIPIUL CHIȘINĂU), *Doctoral School of BGCTS, MSU, Chisinau, Moldova*

**10<sup>10</sup> – 10<sup>20</sup>** **Peshkov Alexandra**, Inga Zinicovscaia, Liliana Cepoi  
INFLUENCE OF THE TECHNIQUE OF COPPER NANOPARTICLES ADMINISTRATION ON *MENTHA SPICATA*, *Joint Institute for Nuclear Research, Dubna, Russian Federation*

**10<sup>20</sup> – 10<sup>30</sup>** **Yushin Nikita**, Inga Zinicovscaia, L. Cepoi, T. Chiriac, L. Rudi and D. Grozdov  
BIOSORPTION AND BIOACCUMULATION CAPACITY OF ARTHROSPIRA PLATENSIS TOWARD YTTRIUM IONS, *Joint Institute for Nuclear Research, Dubna, Russian Federation*

**10<sup>30</sup> – 10<sup>40</sup>** **Vergel Konstantin**, Zinicovscaia Inga, Yushin Nikita, Cepoi Liliana  
ASSESSMENT OF AIR POLLUTION IN THE VICINITY OF OIL REFINERY PLANT USING MOSS BAGS TECHNIQUE, *Joint Institute for Nuclear Research, Dubna, Russian Federation*

**POSTER SESSION**

- 10<sup>40</sup> – 11<sup>00</sup>**
1. Rodideal T., Frunzete M.-E., Ivănescu L.-C., Zamfirache M.-M. THE HISTO – ANATOMY OF THE COMMON SKULLCAP FROM THE REPUBLIC OF MOLDOVA, *“Alexandru Ioan Cuza” University of Iasi, Faculty of Biology, Iasi, Romania*
  2. Narozhnyi Stanislav, Bobrova Olena, Prystalov Anton, 3D PRINTING WITH ESSENTIAL OIL IN HYDROPHILIC SUPPORT GEL, *Institute for Problems of Cryobiology and Cryomedicine NAS of Ukraine, Kharkiv, Ukraine*
  3. Ciloci A., Clapco S., Dvornina E., Labliuc S., Bulhac I., Matrio A. METHOD FOR FUNGAL LIPASES PRODUCTION IN LAB-SCALE FERMENTER, *IMB, TUM, Chisinau, Moldova*
  4. Mocreac N., Postolachi O., Gutul T., ISOLATION OF MICROBIAL CONSORTIA FOR THEIR POTENTIAL APPLICATION IN LDPE BIODEGRADATION, *Technical University of Moldova, Chisinau, Republic of Moldova*

**11<sup>00</sup> – 11<sup>30</sup>** **DISCUSSIONS**

**Thematic session C:**  
**MOLECULAR BIOLOGY AND BIOMEDICINE**

Chairs: **CIOCHINA Valentina, MEREUȚĂ Ion, SACARA Victoria**

*Institute of Sanocreatology, 1 Academiei str., room 352*

- 09<sup>00</sup> – 09<sup>15</sup>** **Secu Gheorghe**, Secu Doina  
THE ROLE OF COFACTORS IN HOMOCYSTEINE METABOLISM: A REVIEW OF CURRENT KNOWLEDGE, *USMF „N.Testemițanu”, Chisinau, Moldova*
- 
- 09<sup>15</sup> – 09<sup>30</sup>** **Coliban Iulia**, Ușurelu Natalia, Sacară Victoria  
MOLECULAR ANALYSIS OF MUTATIONS AND THEIR RELATION IN THE GENES ASSOCIATED WITH SMA, *Institute of Mother and Child, Chisinau, Moldova*
- 
- 09<sup>30</sup> – 09<sup>40</sup>** **Babileva Anastasia**  
STUDY OF THE ACIDPOIETIC FUNCTION OF THE STOMACH IN THE NORMOSTHENIC TYPE OF CONSTITUTION, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 09<sup>40</sup> – 09<sup>50</sup>** **Bîrcă Natalia**  
TULBURĂRILE PSIHOGENE ÎN PANDEMIIA COVID-19, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 09<sup>50</sup> – 10<sup>00</sup>** **Dorif Alexandr**, Sacara Victoria, Palii Ina, Rodoman Iulia, Opalco Igor, Gladun Sergiu  
DEVELOPMENT OF NEW QF-PCR BASED DIGEORGE TYPE I SYNDROME DIAGNOSTICS METHOD WITH HIGH PROGNOSTIC VALUE, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 10<sup>00</sup> – 10<sup>10</sup>** **Garbuzneac Anastasia**, Sheptitsky Vladimir  
SPATIAL LEARNING AND MEMORY OF MALE AND FEMALE WHITE RATS UNDER THE INFLUENCE OF BIOMASS OF STREPTOMYCETES ISOLATED FROM THE SOILS OF THE REPUBLIC OF MOLDOVA, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 10<sup>10</sup> – 10<sup>20</sup>** **Grosul-Raileanu Olesea**, Sheptitsky Vladimir  
FEATURES OF MONOSACCHARIDE ABSORPTION IN THE SMALL INTESTINE OF WHITE RATS WITH DIFFERENT LEVELS OF CONSTITUTIONAL STRESS REACTIVITY, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 10<sup>20</sup> – 10<sup>30</sup>** **Gutu Nadeida**  
SALMONELLA AND SHIGELLA PATHOGENIC ENTEROBACTERIA CAUSING ACUTE DIARRHEA DISEASE, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 10<sup>30</sup> – 10<sup>40</sup>** **Listopadova Lyudmila**, Septitchi Vladimir  
OPTIMIZATION OF ACTIVITY LEVEL AND EATING BEHAVIOR TO PREVENT CIRCADIAN RHYTHM DESYNCHRONOSIS IMPACT, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 10<sup>40</sup> – 10<sup>50</sup>** **Mangul Olga**, Sheptitsky Vladimir  
MEMBRANE HYDROLYSIS OF SUCROSE AND ABSORPTION OF FORMED MONOSACCHARIDES IN THE SMALL INTESTINE UNDER CONDITIONS OF DIETS WITH DIFFERENT CONTENT OF CARBOHYDRATES IN EARLY POSTNATAL ONTOGENESIS, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 10<sup>50</sup> – 11<sup>00</sup>** **Rătea Camelia**  
FUNCTIONAL FOOD COMPONENTS, DYSBIOSIS IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 11<sup>00</sup> – 11<sup>10</sup>** **Secu Doina**, Ușurelu Natalia, Blăniță Daniela, Dorif Alexandr, Sacară Victoria  
MOLECULAR DIAGNOSTIC STRATEGIES IN PATIENTS SUSPECTED FOR MITOCHONDRIAL DNA DISORDERS, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 11<sup>05</sup> – 11<sup>15</sup>** **Tolstenco Dorina**, Leorda Ana  
ANTIMICROBIAL ACTIVITY OF SOME MEDICINAL PLANTS WITH ANTICANCER PROPERTIES AGAINST *E. COLI*, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*
- 
- 11<sup>15</sup> – 11<sup>20</sup>** **Podoleanu Diana**  
MODIFICATION OF BIOMOLECULES UNDER THE ACTION OF RADIATION, *Institute of Applied Physics, Chisinau, Moldova*
- 
- POSTER SESSION**
- 11<sup>20</sup> – 11<sup>25</sup>** Berezovscaia E., Postolati G. PARTICULARITĂȚILE METABOLISMULUI TRIPTOFANEI LA PACIENȚI CU HEPATOPATII CRONICE VIRALE, *Doctoral School of BGCTS, MSU, Chisinau, Moldova*

**11<sup>25</sup> – 11<sup>45</sup>** **DISCUSSIONS**

**Thematic session D:**  
**ENVIRONMENT PROTECTION AND NATURAL RESOURCES MANAGEMENT**

Chairs: **UNGUREANU Laurenția, BEJAN Iurie, BEGU Adam**

*Institute of Zoology, 1 Academiei str., room 321*

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| 09 <sup>00</sup> – 09 <sup>15</sup> | <b>Frunze Nina</b> , Bolocan Nistor, Tonu Nicolai<br>METAGENOMIC CHARACTERIZATION OF THE BIODIVERSITY A ANTHROPOCALLY CHERNOZEM, <i>Institute of Microbiology and Biotechnology, TUM, Chisinau, Moldova</i>  |
| 09 <sup>15</sup> – 09 <sup>30</sup> | <b>Indoitu Diana</b><br>MICROBIOTA IN CARBONATE CHERNOZEM, <i>Institute of Microbiology and Biotechnology, TUM, Chisinau, Moldova</i>  |
| 09 <sup>30</sup> – 09 <sup>45</sup> | Toderaș Ion, Bivol Al., Rusu Ștefan, Cîrlig Natalia, Gliga O., <b>Iurcu-Străistaru Elena</b> , Gutu Ana<br>INVASIVE NEMATOFUNA AND ITS PARASITIC EFFECTS ON AUTUMN WHEAT CROPS UNDER THE CLIMATIC CONDITIONS OF THE REPUBLIC OF MOLDOVA, <i>Institute of Zoology, MSU, Chisinau, Moldova</i> |
| 09 <sup>45</sup> – 10 <sup>00</sup> | <b>Sitnic Veaceslav</b> , Nisteanu Victoria, Larion Alina, Caraman Natalia<br>EVOLUTION OF SMALL MAMMAL COMMUNITIES AT THE DEPRESSION PHASE IN AGROCENOSES IN THE REPUBLIC OF MOLDOVA IN 2022, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>   |
| 10 <sup>00</sup> – 10 <sup>15</sup> | <b>Sochircă Vitale</b> , Dudnicenco Tatiana<br>SOME ASPECTS OF THE DEVELOPMENT OF ENVIRONMENTALLY FRIENDLY TOURISM IN THE CENTER DEVELOPMENT REGION OF THE REPUBLIC OF MOLDOVA, <i>MSU, Chisinau, Moldova</i>  |
| 10 <sup>15</sup> – 10 <sup>25</sup> | <b>Tugulea Cristina</b><br>CARADRINA ASPERSA Rambur, 1834 (LEPIDOPTERA, NOCTUIDAE) – A NEW SPECIES IN THE FAUNA OF THE REPUBLIC OF MOLDOVA, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>  |
| 10 <sup>25</sup> – 10 <sup>35</sup> | Bejan Iurii, <b>Bejan Alexandru</b><br>CLIMATE CONDITIONS OF THE CUBOLTA RIVER BASIN, <i>Institute of Ecology and Geography, Chisinau, Moldova</i>   |
| 10 <sup>35</sup> – 10 <sup>45</sup> | <b>Botnari Aliona</b><br>COMPARATIVE ANALYSIS OF THE PERIODS 1961 – 1990 AND 1991 – 2020 REGARDING THE IMPACT OF CLIMATE CHANGE ON THE DATE OF THE DANGEROUS FROSTS ON THE TERRITORY OF THE REPUBLIC OF MOLDOVA, <i>Doctoral School of BGCTS, MSU, Chisinau, Moldova</i>                     |
| 10 <sup>45</sup> – 10 <sup>55</sup> | <b>Cazac Valeriu</b><br>THE IMPACT AND DAMAGE CAUSED BY TORRENTIAL RAINS IN THE PERIOD 2000-2021 ON THE TERRITORY OF THE REPUBLIC OF MOLDOVA, <i>Doctoral School of Biological, Geonomic, Chemical and Technological Sciences, MSU, Chisinau, Moldova</i>                                    |
| 10 <sup>55</sup> – 11 <sup>05</sup> | <b>Chistol Marcela</b><br>AMORPHOUS SILICON DIOXIDE IN SOYBEAN PLANT HEALTH, <i>IGPPP, MSU, Chisinau, Moldova</i>  |
| 11 <sup>05</sup> – 11 <sup>15</sup> | <b>Eroshenkova Victoria</b> , Bulimaga Constantin<br>COMPARATIVE CHARACTERISTICS OF BIOGENIC POLLUTION OF THE LOWER NISTR RIVER ECOSYSTEMS, <i>Institute of Ecology and Geography, Chisinau, Moldova</i>   |
| 11 <sup>15</sup> – 11 <sup>25</sup> | <b>Grozdeva Svetlana</b><br>FIRST RECORD OF THE LEAFHOPPER MEGOPHTHALMUS SCANICUS (FALLEN, 1806) (HEMIPTERA: AUCHENORRHYNCHA: CICADELLIDAE) IN THE REPUBLIC OF MOLDOVA, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>  |
| 11 <sup>25</sup> – 11 <sup>35</sup> | <b>Istrati Sorina</b><br>EVALUATING THE CONDITION OF STEPPE ECOSYSTEMS IN THE REPUBLIC OF MOLDOVA, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>   |
| 11 <sup>35</sup> – 11 <sup>45</sup> | <b>Marareskul Vladislav</b> , Obada T.<br>UPPER SARMATIAN FAUNA FROM POCȘEȘTI, REPUBLIC OF MOLDOVA, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>  |
| 11 <sup>45</sup> – 11 <sup>55</sup> | <b>Paladi Viorica</b><br>CURRENT STATUS OF THE PELECANIFORMES SPECIES IN THE RAMSAR AREA "THE LAKES OF LOWER PRUT, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>   |

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| 11 <sup>55</sup> – 12 <sup>05</sup>  | <b>Portarescu Anastasiia</b> , Bulimaga Constantin<br>FORECAST OF SUSTAINABILITY OF BĂLȚI CITY THROUGH THE PRISM OF THE QUANTITY OF PHYTOMASS, <i>Institute of Ecology and Geography, Chisinau, Moldova</i>   |
| 12 <sup>05</sup> – 12 <sup>15</sup>  | <b>Prodan Petru</b><br>THE IMPACT OF THE EFFLUENT FROM THE WASTEWATER TREATMENT PLANT BĂLȚI ON QUALITY RĂUT RIVER, <i>Institute of Ecology and Geography, Chisinau, Moldova</i>   |
| 12 <sup>15</sup> – 12 <sup>25</sup>  | <b>Romanovichi Nicolai</b><br>ADAPTIVE FEATURES OF THE ETHOLOGY OF SOME WETLAND BIRDS TO LIFE IN SETTLEMENTS, <i>MSU, Chisinau, Moldova</i>   |
| 12 <sup>25</sup> – 12 <sup>35</sup>  | <b>Stadnic Anjela</b> , JIGĂU Gheorghe<br>ELEMENTS OF THE EVOLUTION OF AGROECOLOGICAL POTENTIAL OF ARABLE CHERNOZEM SOILS UNDER CLIMATE CHANGE CONDITIONS, <i>Doctoral School of BGCTS, MSU, Chisinau, Moldova</i>  |
| 12 <sup>35</sup> -12 <sup>45</sup>   | <b>Zakharov Denis</b><br>LYNX ISSIODORENSIS (FELIDAE, CARNIVORA) FROM THE EARLY PLIOCENE LOCALITY PRIOZERNOE IN THE DNIESTER VALLEY, <i>Institute of Zoology, MSU, Chisinau, Moldova</i>  |
| <b>POSTER SESSION</b>  |   |
|  | 1. Bîrsan Ana, Frunză Maria, Ganea Ion, Diaconu Ecaterina, INVASIVE SPECIES OF WOODY PLANTS IN THE „ORHEIUL VECHI” PROTECTED AREA, <i>Moldova State University, Chisinau, Moldova</i>   |
|  | 2. Gherasim Elena, Cozari Tudor, THE EFFECTIVE OF AMPHIBIANS POPULATIONS IN THE ORHEI NATIONAL PARK, <i>Institute of Zoology Chisinau, MSU, Moldova</i>   |
|  | 3. Gherasim Elena, Erhan Dumitru, FAUNA OF TREMATODES OF AMPHIBIANS ( <i>RANIDAE</i> , <i>BUFONIDAE</i> FAMILIES) IN THE REPUBLIC OF MOLDOVA. 1. FAMILY <i>PLAGIORCHIIDAE</i> , <i>Institute of Zoology Chisinau, MSU, Moldova</i>  |
| 12 <sup>45</sup> – 13 <sup>15</sup>  | 4. Steclă Victor, THE MONOTROPA L. (ERICACEAE) IN THE FLORA OF “DOBRUȘA” LANDSCAPE RESERVE, <i>TUM, Chisinau, Moldova</i>   |
|  | 5. Sochircă V., Dudnicenco T. CRIULENI DISTRICT AS AN ECOTOURISM DESTINATION, <i>Moldova State University, Chisinau, Moldova</i>  |
|  | 6. Toderăș Ion, Bivol Alexei, Rusu Ștefan, Cîrlig Natalia, Gliga Olesea. Iurcu-Străistaru Elena. THE RESULTS OF THE RESEARCH ON INVASIVE NEMATODE COMPLEXES ASSOCIATED WITH HARMFUL ARTHROPODS IN PLUM ORCHARDS UNDER THE CONDITIONS OF THE REPUBLIC OF MOLDOVA, <i>Institute of Zoology, Moldova State University, Chisinau, Moldova</i> |
| 13 <sup>15</sup> – 13 <sup>45</sup> <b>DISCUSSIONS</b>   |   |
| <b>Thematic session E:</b><br><b>CHEMISTRY AND CHEMICAL COMPOUNDS IN BIOLOGY, AGRICULTURE AND MEDICINE</b><br><b>Chairs: ARICU Aulina, DUCA Gheorghe, LUPASCU Tudor</b><br><i>Institute of Chemistry, Academiei 3 Str., room 349</i> |   |
| 09 <sup>00</sup> – 09 <sup>10</sup>  | <b>Cojocari Sergiu</b> , Sidorenko Anatolie, Macaev Flur PREPARATION, ANALYSIS AND CHARACTERIZATION OF (1R,3R,5S,7S)-4,4,7-TRIMETHYL-8-AZATRICYCLO [5.2.0.03.5] NONAN-9-ONE, <i>Institute of Chemistry, Moldova State University, Chisinau, Moldova</i>   |
| 09 <sup>10</sup> – 09 <sup>20</sup>  | <b>Graur Ianina</b> , Graur Vasiliu, Tsapcov Victor, Garbuz Olga, Gulea Aurelian<br>NOVEL MIXED-LIGAND CU(II) COORDINATION COMPOUNDS WITH 4 ALLYLTHIOSEMICARBAZONE, <i>Moldova State University, Chisinau, Moldova</i>  |
| 09 <sup>20</sup> – 09 <sup>30</sup>  | <b>Popescu Violeta</b><br>THE CHEMICAL COMPOSITION OF BY-PRODUCT RESULTING FROM THE PRODUCTION OF SCLAREOL, <i>Doctoral School in Biological, Geonomic, Chemical and Technological Sciences, Moldova State University, Chisinau, Moldova</i>  |
| 09 <sup>30</sup> – 09 <sup>40</sup>  | <b>Rusnac Anna</b> , Sergiu Shova, Aurelian Gulea<br>SYNTHESIS OF NEW ETHYL 2-({2-[PHENYL(PYRIDIN-2YL) METHYLIDENE] HYDRAZINE CARBOTHIOY}AMINO)-BENZOATE, <i>MSU, Chisinau, Moldova</i>   |
| 09 <sup>40</sup> -09 <sup>50</sup>   | <b>Vicol Crina</b> , Duca Gheorghe<br>ANTIOXIDANT ACTIVITY OF ENOXIL DETERMINED VIA INTERACTION WITH VARIOUS FREE RADICALS, <i>Institute of Chemistry, Moldova State University, Chisinau, Moldova</i>  |

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| 09 <sup>50</sup> -10 <sup>00</sup> | <b>Visnevschi Alexandru</b><br>EXPLORING INNOVATIVE TECHNOLOGICAL SCHEMES FOR OPTIMIZING NITROGEN SEPARATION IN THE WASTEWATER TREATMENT PROCESS AT MEDIUM-SCALE STATIONS, <i>Institute of Chemistry, MSU, Chisinau, Moldova</i> |
| 10 <sup>00</sup> -10 <sup>10</sup> | <b>Neguta Andrei</b><br>SYNTHESIS OF N-(4,6-DIMETHYLPYRIMIDIN-2-YL)HYDRAZINECARBOTHIOAMIDE, <i>Moldova State University, Chisinau, Moldova</i>   |
| 10 <sup>10</sup> -10 <sup>20</sup> | <b>Tasca Corina</b><br>EFFECT OF BIOACTIVE ADDITIVES ON BIOMASS FERMENTATION FROM AGRO-INDUSTRIAL SECTOR, <i>Institute of Chemistry, MSU, TUM, Chisinau, Moldova</i>   |

#### **POSTER SESSION**

1. Bîrcă Natalia, Kulcîtki Veaceslav, SYNTHESIS OF NEW SESQUITERPENIC DERIVATIVES WITH AZIDE AND  $\beta$ -LACTAM FUNCTIONAL GROUPS, *Institute of Chemistry, MSU, Chisinau, Moldova*
2. Blonschi Vladislav, Gladchi Viorica, Ala Marius. NEW APPROACHES IN ESTIMATING PROCESSES OF RADICAL SELF-PURIFICATION OF WATERS, *Moldova State University, Chisinau, Moldova*
3. Capbătut Olga, Sultanova Olga, Kravtsov Victor, Baca Svetlana, BIOLOGICAL ACTIVITY OF POLYNUCLEAR Cu(II) ISOBUTYRATES AGAINST TUMOR GROWTH IN GRAPEVINE, *Institute of Applied Physics, MSU, Chisinau, Moldova*
4. Cisteacov Maxim, Blonschi Vladislav, Gladchi Viorica. MONITORING OF THE THIOLS IN GHIDIGHICI AND DANCENI LAKES DURING 2022, *MSU, Chisinau, Moldova*
5. Craciun Nicoleta, Melnic Elena, Chisca Diana, Fonari Marina, SYNTHESIS AND CRYSTAL STRUCTURE OF A NEW Co(II) METAL-ORGANIC COMPOUND WITH THE BENT DITOPIC 4,4'-DIAMINODIPHENYLMETHANE LIGAND, *Institute of Applied Physics, MSU, Chisinau, Moldova*
- 10<sup>20</sup> - 11<sup>00</sup> 6. Gonta Maria, Mocanu Larisa, Popaz Ivan, OXIDATION/MINERALIZATION OF DRUGS IN MIXED SYSTEMS BY APPLYING HETEROGENEOUS PHOTOCATALYTIC PROCESSES, *MSU, Chisinau, Moldova*
7. Lis A., Gladchi V., Spiridonova T. INFLUENCE OF COPPER(II) IONS ON THE PHOTOLYSIS OF FOLIC ACID IN AQUATIC SYSTEMS, *Moldova State University, Chisinau, Moldova*
8. Mocanu L., Gonta M., Matveevici V., Popaz I. FENTON OXIDATION OF SODIUM DICLOFENAC, *Moldova State University, Chisinau, Moldova*
9. Shepel Diana, Spataru Petru, Visnevschi Alexandru, ANAMMOX AS A METHOD FOR REMOVING NITROGEN COMPOUNDS FROM WASTEWATER, *Institute of Chemistry, Moldova State University, Chisinau, Moldova*
10. Talmaci Natalia, Dragancea Diana, SYNTHESIS AND CRYSTAL STRUCTURE OF Cu(II) 1D COORDINATION POLYMERS WITH A CARBOHYDRAZONE LIGAND AND BIS(PYRIDYL) LINKERS, *Institute of Chemistry, MSU, Chisinau, Moldova*

11<sup>00</sup> - 11<sup>30</sup>

#### **DISCUSSIONS**

15<sup>00</sup>-16<sup>00</sup>

#### **CLOSING REMARKS**

Chair: **DUCA Maria**

*Moldova State University, 65 M. Kogălniceanu str., room 333*

The Conference was attended by 399 participants  
from 19 universities and 41 institutes and research centers,  
representing 11 countries, including:

Republic of Moldova (302), Ukraine (43), Romania (26), Serbia (7), Russian Federation (6),  
China (5), Czech Republic (3), USA (3), Slovak Republic (2), Switzerland (1), France (1).

#### UNIVERSITIES

1. „Alexandru Ioan Cuza" University of Iasi, Romania
2. Atlantic International University, United States of America
3. Bioterra University, Bucharest, Romania
4. Bucharest University of Economic Studies, Romania
5. Free International University of Moldova, Chisinau, Republic of Moldova
6. Inner Mongolia Agricultural University, College of Horticulture and Plant Protection, Hohhot, China
7. „Ion Creangă" State Pedagogical University, Chisinau, Republic of Moldova
8. Moldova State University, Chisinau, Republic of Moldova
9. National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine,
10. „Nicolae Testemițanu" State University of Medicine and Pharmacy, Chisinau, Republic of Moldova
11. Old Dominion University, Norfolk, Virginia, United States of America
12. Slovak University of Agriculture in Nitra, Nitra, Slovak Republic
13. Taras Shevchenko National University of Kyiv, Kyiv, Ukraine
14. Technical University of Moldova, Chisinau, Republic of Moldova
15. University of Agronomic Science and Veterinary Medicine of Bucharest, Bucharest, Romania
16. University of Bern, Institute of Ecology and Evolution, Switzerland
17. University of Life Science, Iasi, Romania
18. University of Life Sciences „King Mihai I" from Timisoara, Romania
19. „V. N. Karazin" Kharkiv National University, Kharkiv, Ukraine

#### RESEARCH INSTITUTES

1. Agricultural Research Development Station Braila, Romania
2. Center for Studies and Research for Agroforestry Biodiversity, „Acad. David Davidescu", Romanian Academy, Bucharest, Romania
3. Crop Researches Institute, Praha, Czech Republic
4. „Horia Hulubei" National Institute for R&D in Physics and Nuclear Engineering, Magurele, Romania
5. „M.G. Kholodny" Institute of Botany, National Academy of Sciences of Ukraine, Kyiv, Ukraine
6. Institute for Potato Research of the National Academy of Agrarian Sciences of Ukraine, Nemishaieve, Ukraine
7. Institute for Problems of Cryobiology and Cryomedicine NAS of Ukraine, Kharkiv, Ukraine
8. Institute of Applied Physics, Moldova State University, Chisinau, Republic of Moldova
9. Institute of Bioenergy Crops and Sugar Beet of National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine
10. Institute of Chemistry, Moldova State University, Chisinau, Republic of Moldova
11. Institute of Ecology and Geography, Moldova State University, Chisinau, Republic of Moldova
12. Institute of Electronic Engineering and Nanotechnologies, Moldova Technical University, Chisinau, Republic of Moldova
13. Institute of Food Biotechnology and Genomics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
14. Institute of Genetics, Physiology and Plant Protection, Moldova State University, Chisinau, Moldova
15. Institute of Geology and Seismology, Moldova State University, Chisinau, Republic of Moldova
16. Institute of Horticulture of National Academy of Agrarian Sciences of Ukraine, Novosilky, Ukraine
17. Institute of Macromolecular Chemistry „Petru Poni" Iasi, Romania
18. Institute of Microbiology and Biotechnology, Moldova Technical University, Chisinau, Moldova
19. Institute of Mother and Child, Chisinau, Republic of Moldova
20. Institute of Oilseed Crops NAAS, Zaporizhzhia, Ukraine
21. Institute of Oncology, Chisinau, Republic of Moldova
22. Institute of Pedology, Agrochemistry and Soil Protection „Nicolae Dimo", Chisinau, Moldova
23. Institute of Physiology and Sanocreatology, Moldova State University, Chisinau, Republic of Moldova

24. Institute of Plant Protection of the National Academy of Agrarian Sciences of Ukraine
25. Institute of Zoology, Moldova State University, Chisinau, Republic of Moldova
26. Joint Institute for Nuclear Research, Dubna, Russian Federation
27. Maize Research Institute, Zemun Polje, Belgrade-Zemun, Serbia
28. National Agricultural Research and Development Institute, Fundulea, Calarasi, Romania
29. National Botanical Garden (Institute), Moldova State University, Chisinau, Republic of Moldova
30. National Museum of Ethnography and Natural History of Moldova, Chisinau, Republic of Moldova
31. National Research Institute for Biological Sciences, Bucharest, Romania
32. Plant Breeding and Genetics Institute – National Center of Seed and Cultivar Investigation, Odesa, Ukraine
33. Plant Production Institute Named after „V.Ya.Yuriev” of the National Academy of Agrarian Sciences of Ukraine, Ustymivka, Ukraine
34. Public Health Medical Institution, MTA Buiucani, Chisinau, Republic of Moldova
35. Research - Development Institute for Plant Protection, Bucharest, Romania
36. Research Centre for Sustainable Development, Bucharest, Romania
37. Research Institute for Field Crops „Selectia”, Balti, Republic of Moldova
38. Scientific reserve „Lower Prut”, Slobozia Mare, Republic of Moldova
39. Scientific-Practical Institute of Biotechnology in Animal Husbandry and Veterinary Medicine, Maximovca, Republic of Moldova
40. Scientific-Practical Institute of Horticulture and Food Technologies, Chisinau, Republic of Moldova