



**SCIENTIFIC ASSOCIATION OF GENETICISTS AND BREEDERS
OF THE REPUBLIC OF MOLDOVA**

*University of the Academy of Sciences of Moldova (UnASM)
Institute of Genetics, Physiology and Plant Protection of the ASM (IGPPP)*

The Xth International Congress of Geneticists and Breeders

P R O G R A M M E



28 June – 1 July 2015
Chisinau, Republic of Moldova



*Scientific Association of Geneticists
and Breeders of the Republic of Moldova*

*University of the Academy of Sciences of Moldova
Institute of Genetics, Physiology and Plant Protection of ASM*

PROGRAMME



The Xth International Congress of Geneticists and Breeders

June 28 – July 1, 2015
CHISINAU, REPUBLIC of MOLDOVA

INTERNATIONAL SCIENTIFIC COMMITTEE

- Acad., Prof., D. Sc. Maria DUCA,**
President of the Scientific Association of Geneticists and Breeders of Republic Moldova;
University of the Academy of Sciences of Moldova, R. Moldova
(President)
- Acad., Prof., D. Sc. Vasile MICU,**
Vice-President of the Association;
Institute of Crop Production "Porumbeni", R. Moldova
- D. Sc. Vasile BOTNARI,**
Institute of Genetics, Physiology and Plant Protection of ASM, R. Moldova
(Vice-President)
- Acad., Prof., D. Sc. Alexandru CIUBOTARU,**
Botanical Garden (Institute) of ASM, Moldova
- Prof., D. Sc. Nicolai DZIUBENCO,**
"N. I. Vavilov" Research Institute of Plant Industry, Sankt-Petersburg, Russia
- Acad., Prof., D. Sc. Stanislav GROPPA,**
State University of Medicine and Pharmacy "N. Testemitanu", R. Moldova
- Prof., PhD Le Huy HAM,**
Institute of Agricultural Genetics, Hanoi, Vietnam
- Acad., Prof., Cristian Ioan D. HERA,**
Romanian Academy, Bucharest, Romania
- Prof., Dr. Isgouhi KALOSHIAN,**
University of California, Riverside, United States of America
- Prof., Dr. Yalçın KAYA,**
Trakya University, Engineering Faculty, Edirne, Turkey
- Corr. Member, Prof., D. Sc. Andrei PALII,**
State Agrarian University of Moldova, R. Moldova
- Acad., Prof., Victor PIVOVAROV,**
All-Russian Research Institute for Vegetable Breeding and Seed Production, Odintsovo, Russia
- Acad., Prof., Octavian POPESCU,**
Institute of Biology Bucharest, Romania
- Prof., Dr. Otmar SPRING,**
Institute for Botany, Hohenheim University, Stuttgart, Germany

ORGANIZING COMMITTEE

- Dr. Eugenia COTENCO,**
Scientific Secretary of the Association; IGPPP
- Dr. Larisa ANDRONIC,** *IGPPP*
- Dr. Angela PORT,** *UnASM*
- Dr. Gabriela ROMANCIUC,** *IGPPP*
- Dr. Victoria SACARĂ,** *MSPI Institute of Mother and Child*
- Dr. Steliana CLAPCO,** *UnASM*
- PhD student Rodica MARTEA,** *UnASM*

THE INSTITUTIONS MEMBER OF THE
Scientific Association of Geneticists and Breeders of the Republic of Moldova

- **University of Academy of Sciences of Moldova**
- **Institute of Genetics, Physiology and Plant Protection, ASM**
- **Institute of Physiology and Sanocreatology, ASM**
- **Institute of Zoology, ASM**
- **Institute of Microbiology and Biotechnology, ASM**
- **Botanical Garden (Institute), ASM**
- **State University of Medicine and Pharmacy “N. Testemitanu”**
- **National Center of Human Reproduction and Medical Genetics**
- **Institute of Mother and Child**
- **Moldova State University**
- **State Agrarian University of Moldova**
- **Institute of Crop Science “Porumbeni”**
- **Research Institute of Field Crops “Selectia”**
- **Scientific and Practical Institute by Biotechnologies in Animal Husbandry and Veterinary Medicine**
- **Scientific Practical Institute of Horticulture and Food Technology**



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Thanks and appreciation to the following organizations for their valuable support:



CONGRESS PROGRAMME

SUNDAY, June 28, 2015

	<i>Arrival of the participants</i>
18.00-19.00	REGISTRATION
19:00-21:00	<i>Welcome Dinner</i>

MONDAY, June 29, 2015

Blue Hall of the Academy of Sciences of Moldova
(1 Stefan cel Mare bd.)

9:00-10:00	REGISTRATION
9:30-10:00	Visit to the Academy of Sciences of Moldova, ASM museum
10:00-10:45	OPENING CEREMONY
10:45-11:00	<i>Coffee Break</i>
11:00-13:00	PLENARY SESSION <i>Chairs: GROPPA Stanislav; ŠKORIĆ Dragan; SPRING Otmár</i>
	SCIENTIFIC ASSOCIATION OF GENETICISTS AND BREEDERS OF THE REPUBLIC OF MOLDOVA FROM CONGRESS TO CONGRESS <i>DUCA Maria - University of the Academy of Science of Moldova, Chisinau (Moldova)</i>
	MOLECULAR TOOLS FOR TRACING BIOTROPIC PATHOGENS IN CROP PLANTS <i>SPRING Otmár - Institute of Botany, University of Hohenheim, Stuttgart (Germany)</i>
	BBMRI-ERIC - WHY IT MATTERS TO JOIN <i>PASTERK Markus - Administrative Director BBMRI-ERIC (Austria)</i>
	GENETIC VARIABILITY OF OIL QUALITY COMPONENTS IN SUNFLOWER AS A FUNCTION OF DEVELOPING HYBRIDS WITH NOVEL OIL <i>ŠKORIĆ Dragan - Institute of Field and Vegetable Crops, Serbian Academy of Sciences and Arts, Novi Sad, SASA Branch in Novi Sad, Belgrade (Serbia)</i>
	SCREENING OF ACTIVATION-TAG ARABIDOPSIS MUTANTS WITH ALTERED SUSCEPTIBILITY TO PHELIPANCHE RAMOSA AND P. MUTELII <i>DENEV Iliya - Department of Plant Physiology and Molecular Biology, Plovdiv University, Plovdiv (Bulgaria)</i>
	VAVILOV'S COLLECTION OF CULTIVATED PLANTS: PAST, PRESENT AND FUTURE <i>DZYUBENKO Nikolay - Federal Research Centre. All-Russian Institute of Plant Genetic Resources by name N.I. Vavilov (VIR), Saint Petersburg (Russian Federation)</i>
13:00-13:10	<i>Group photo of the Congress participants</i>
13:10-14:00	<i>Lunch Break</i>

14:00-15:20	<p>PLENARY SESSION Chairs: <i>DENEV Iliya; KAYA Yalcin; DZYUBENKO Nikolay</i></p> <p>NMR SPECTROSCOPY- A VALUABLE RESEARCH TOOL FROM PLANT TO HUMANS <i>DELEANU Călin</i> - Institute of Macromolecular Chemistry of the Romanian Academy, Iasi; “C. D. Nenitescu” Centre of Organic Chemistry of the Romanian Academy, Bucharest (<i>Romania</i>)</p> <p>CURRENT STRATEGIES IN SUNFLOWER BREEDING <i>PACUREANU-JOITA Maria</i> - National Agricultural Research and Development Institute - Fundulea (<i>Romania</i>)</p> <p>HERBICIDE RESISTANCE BREEDING IN SUNFLOWER, CURRENT SITUATION AND FUTURE DIRECTIONS <i>KAYA Yalcin</i> - Trakya University Engineering Faculty, Genetic and Bioengineering Department, Edirne (<i>Turkey</i>)</p> <p>ABILITIES AND NEEDS OF CHILDREN WITH GENETIC DISORDERS <i>MIDRO Alina</i> - Department of Clinical Genetics, Medical University Białystok (<i>Poland</i>)</p>
15:20-15:30	DISCUSSION
15:30-20:00	<p>Cultural Program and Dinner Visit to the famous Cricova cellar, situated in the vicinity of Chisinau. “Cricova” winery is the leader of Moldavian winemakers and Cricova cellar represent a real underground city (http://cricova.md/en).</p>

TUESDAY - June 30, 2015

9:00-12:30

T H E M A T I C S E S S I O N S

<p>GENERAL AND MOLECULAR GENETICS 22 Room, University of the Academy of Sciences of Moldova, 3/2 Academiei Str. Chairs: <i>CIUBOTARU Alexandru; PALII Andrei; CHESNOKOV Yurii</i></p>	
<p>MOLECULAR CLASSIFICATION AND COMPARATIVE ANALYSIS OF ARTHROBACTER GENUS PLASMIDS <i>MIHĂȘAN Marius</i> - Alexandru I. Cuza University of Iasi (<i>Romania</i>)</p>	
<p>ASSOCIATION MAPPING OF MORPHOLOGICAL AND BIOCHEMICAL TRAITS IN BRASSICA RAPA L. CORE COLLECTION OF VIR <i>CHESNOKOV Yu. V.</i> - N. I. Vavilov Institute of Plant Industry (<i>Russian Federation</i>)</p>	
<p>PROBLEME ECOLOGO-GENETICE PROVOCATE DE ERBICIDE ȘI PESTICIDE APLICATE ÎN AGROCENOZELE INTENSIVE <i>CIUBOTARU A. A</i> - Botanical Garden (Institute) of the ASM (<i>Moldova</i>)</p>	
<p>EXPRESSION OF SOME GENES IN BARLEY UNDER VIRAL INFECTION <i>ANDRONIC Larisa</i> - Institute of Genetics, Physiology and Plant Protection of the ASM (<i>Moldova</i>)</p>	
<p>THE MECHANISMS OF CROSS-TALK BETWEEN GIBBERELLINS AND OTHER PHYTOHORMONES <i>MARTEA Rodica</i> - University of the Academy of Science of Moldova, Chisinau (<i>Moldova</i>)</p>	
<p>CREATING PRIMERS FOR DETECTING PHYTOPLASMA INFECTIONS IN TOMATO PLANTS <i>ZAMORZAEVA Irina</i> - Institute of Genetics, Physiology and Plant Protection of the ASM (<i>Moldova</i>)</p>	

HUMAN AND MEDICAL GENETICS

Meeting Room, Central Scientific Library "A. Lupan" of the ASM, 5 Academiei Str.

Chairs: MIDRO Alina; SACARĂ Victoria; DELEANU Călin

GENETICA EPILEPSIEI

GROPPA Stanislav - State University of Medicine and Pharmacy "N. Testemitanu", Chisinau (*Moldova*)

SCREENING OF CONGENITAL HYPOTHYROIDISM (CH) FOR MOLDOVAN INFANTS WITH A HIGH PERFORMANCE TSH NEONATAL SCREENING ELISA

BÖER Roman - IBL-International GmbH, Hamburg (*Germany*)

MONITORING OF CONGENITAL ANOMALIES IN THE POPULATION OF REPUBLIC OF MOLDOVA

BARBOVA Natalia - National Center of Human Reproduction and Medical Genetics, Institute of Mother and Child, Chisinau (*Moldova*)

OUR FIRST RESULTS OF TARGETED ARRAY CGH IN PRENATAL DIAGNOSIS

PAVEL Anca - Cytogenomic Medical Laboratory, Bucharest (*Romania*)

GENETIC ISSUES IN PEDIATRIC HYPERTROPHIC CARDIOMYOPATHY

STAMATI Adela - State University of Medicine and Pharmacy "Nicolae Testemitanu" Chisinau (*Moldova*)

GENOMIC TECHNOLOGIES – INVESTIGATIVE TOOLS IN NEURODEVELOPMENTAL DISORDERS

TUTULAN-CUNITA Andreea - Victor Babes National Institute of Pathology, Bucharest (*Romania*)

THE ROLE OF CYTOGENETIC PRENATAL DIAGNOSIS IN PREVENTION OF CHROMOSOMAL ABNORMALITIES

SPRINCEAN Mariana - Institute of Mother and Child; State University of Medicine and Pharmacy "N. Testemitanu", Chisinau (*Moldova*)

IDENTIFICATION OF GENES POTENTIALLY INVOLVED IN CARDIOVASCULAR DISEASE

ABDUSA Daniela - University of the Academy of Science of Moldova, Chisinau (*Moldova*)

PLANT GENETICS AND BREEDING

Conference Room, Central Scientific Library "A. Lupan" of the ASM, 5 Academiei Str.

Chairs: MICU Vasile; BALASHOVA Irina; PACUREANU-JOIȚA Maria

AMELIORAREA PLANTELOR NECESITĂ AMELIORARE

Vasile MICU - Institute of Crop Production "Porumbeni" (*Moldova*)

STAREA ACTUALĂ ȘI UNELE OPORTUNITĂȚI DE REVITALIZARE ÎN PRODUCEREA SEMINȚELOR DE LEGUME

BOTNARI Vasile - Institute of Genetics, Physiology and Plant Protection of the ASM (*Moldova*)

STRATEGIES FOR CONTROL OF OROBANCHE CUMANA IN SUNFLOWER

CVEJIĆ Sandra - Institute of Field and Vegetable Crops, Novi Sad (*Serbia*)

QTL ANALYSIS OF BIOCHEMICAL AND IMMUNOLOGICAL TRAITS IN BRASSICA RAPA SUBSP. RAPA L.

ARTEMYEVA A.M. - N.I.Vavilov Institute of Plant Industry (*Russian Federation*)

THE BREEDING STRATEGY AND HYBRIDIZATION OF TOMATO PLANTS WITH D-GENES IN THE SPECIAL BREEDING PROGRAM

BALASHOVA I.T. - All-Russian Research Institute for Vegetable Breeding and Seed Production (VNISSOK), Moscow region (*Russian Federation*)

<p>EFFECTIVENESS OF GAMETOPHYTE SCREENING IN THE BREEDING OF LETTUCE SAMPLES WITH LOW CADMIUM ACCUMULATION <i>KOZAR E.G.</i> - All-Russian Research Institute for Vegetable Breeding and Seed Production (<i>Russian Federation</i>)</p>
<p>SUPORTUL INFORMATIC ÎN MANAGEMENTUL GENOFONDULUI VIȘTEI DE VIE AL ÎȘPHTA <i>CORNEA V.</i> - Practical Scientific Institute of Horticulture and Food Technology (<i>Moldova</i>)</p>
<p>IDENTIFICAREA POTENȚIALULUI AMELIORATIV AL RESURSELOR GENETICE ALE VIȘTEI DE VIE <i>SAVIN Gheorghe</i> - Practical Scientific Institute of Horticulture and Food Technology (<i>Moldova</i>)</p>
<p>BIOCHEMICAL DIVERSITY OF THE <i>ORIGANUM VULGARE</i> SSP. <i>VULGARE</i> L. AND <i>ORIGANUM VULGARE</i> SSP. <i>HIRTUM</i> LINK) IETSWAART GENOTYPES FROM MOLDOVA <i>GONCEARIUC Maria</i> - Institute of Genetics, Physiology and Plant Protection of the ASM (<i>Moldova</i>)</p>
<p>RESEARCH ON TETRAPLOID MAIZE WITH OPAQUE-2 ENDOSPER <i>BATÎRU Grigorii</i> - State Agrarian University of Moldova (<i>Moldova</i>)</p>
<p>AGROBIOLOGICAL PECULIARITIES AND FODDER VALUE OF THE NEW PERENNIAL FORAGE LEGUME SPECIES IN MOLDOVA <i>TELEUȚĂ Alexandru</i> - Botanical Garden (Institute) of the ASM (<i>Moldova</i>)</p>
<p>REALIZĂRI ÎN AMELIORAREA CULTURILOR DE SORG <i>MORARU Gheorghe</i> - Institute of Genetics, Physiology and Plant Protection of the ASM (<i>Moldova</i>)</p>
<p>INBRED LINES OF EARLY MAIZE: GERMPLOSM, EVALUATION AND CLASSIFICATION <i>MUSTEAȚA Simion</i> - Institute of Crop Science "Porumbeni" (<i>Moldova</i>)</p>
<p>MOLECULAR AND GENETIC CONTROL OF SUNFLOWER RESISTANCE TO DOWNY MILDEW <i>ȘESTACOVA Tatiana</i> - University of the Academy of Science of Moldova, Chisinau (<i>Moldova</i>)</p>
<p>EXPRESSION OF ANTIOXIDANT GENES IN SUNFLOWER INFECTED WITH BROOMRAPE <i>TABĂRĂ Olesia</i> - University of the Academy of Science of Moldova, Chisinau, Chisinau (<i>Moldova</i>)</p>
<p style="text-align: center;">ANIMAL GENETICS AND BREEDING <i>4 Room, University of the Academy of Sciences of Moldova, 3/2 Academiei Str.</i> Chairs: <i>FOCSHA Valentin; TODERAȘ Ion; CORLĂTEANU Alexandru</i></p>
<p>ALBINISM - IMPORTANT FACTOR OF GRAY RAT METAMORPHOSIS IN A LABORATORY ANIMAL <i>CORLĂTEANU Alexandru</i> - Moldova State University (<i>Moldova</i>)</p>
<p>IMPROVEMENT OF TSIGAIIE SHEEP BREED OF MOLDOVAN TYPE <i>TOFAN Ivan</i> - Scientific-Practical Institute of Biotechnology in Animal Husbandry and Veterinary Medicine (<i>Moldova</i>)</p>
<p style="text-align: center;">PLANT AND ANIMAL BIOTECHNOLOGY <i>Senate Room, University of the Academy of Sciences of Moldova, 3/2 Academiei Str.</i> Chairs: <i>VOLOȘCIUC Leonid; CEPOI Liliana; GAVRILOVA Vera</i></p>
<p>PHYLOGENETICAL APPROACH FOR THE SEARCH OF VALUABLE METABOLIC PRODUCTS IN CYANOBACTERIA <i>CEPOI Liliana</i> - Institute of Microbiology and Biotechnology of the ASM (<i>Moldova</i>)</p>

RECENT ACHIEVEMENTS IN MICROBIOLOGICAL PLANT PROTECTION <i>VOLOȘCIUC Leonid</i> - Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau (<i>Moldova</i>)	
BIORATIONAL PESTICIDES IN THE INTEGRATED PROTECTION SYSTEM OF STONE FRUIT CROPS <i>ELISOVETSKAYA Dina</i> - Institute of Genetics, Physiology and Plant Protection of the ASM (<i>Moldova</i>)	
TEHNOLOGIE INOVATIVĂ DE OBTINERE A MANOPROTEINELOR DIN LEVURILE SACCHAROMYCES CU APLICARE PRACTICĂ <i>FULGA Ludmila</i> –Institute of Microbiology and Biotechnology of the ASM (<i>Moldova</i>)	
PRODUCTION OF THE GRAIN MOTH EGGS ON DIFFERENT GRAIN SUBSTRATES FOR TRICHOGRAMMA ENTOMOPHAGUE REARING <i>GAVRILITA Lidia</i> - Institute of Genetics, Physiology and Plant Protection of the ASM (<i>Moldova</i>)	
ELECTROPHORETIC ANALYSIS OF PHYCOCYANIN PREPARATIONS PURIFIED BY METHODS OF CHROMATOGRAPHY <i>CLIMOVA N.</i> - Moldova State University (<i>Moldova</i>)	
ACȚIUNEA UNDELOR MILIMETRICE ASUPRA PRODUCTIVITĂȚII LA LEVURILE SACCHAROMYCES CEREVISIAE <i>CHISELIȚA Natalia</i> - Institute of Microbiology and Biotechnology of the ASM (<i>Moldova</i>)	
STUDY OF THE VARIABILITY OF OROBANCHE CUMANA POPULATIONS INFESTING SUNFLOWER IN DIFFERENT REGIONS OF RM <i>ACCIU Adriana</i> - University of the Academy of Science of Moldova, Chisinau (<i>Moldova</i>)	
BIOHYBRID TECHNOLOGY: SYMBIOSIS OF ORGANISMS AND ROBOTS <i>KERNBACH Serge</i> - Cybertronica Research, Research Center of Advanced Robotics and Environmental Science, Stuttgart (<i>Germany</i>)	
12:30-13:30 Central Scientific Library A. Lupan” of the ASM, 5 Academiei Str.	Lunch Break
	POSTER SESSION
13:30-16:00	REPORT OF THE ACTIVITIES BY SECTIONS Chairs: <i>DUCA Maria; BOTNARI Vasile</i>
	INFORMAȚIA DE BREVET SUB FORMA DE PRODUSE ANALITICE <i>JOVMIR Tudor</i> - The State Agency on Intellectual Property of the Republic of Moldova (<i>Moldova</i>)
	GENERAL AND MOLECULAR GENETICS <i>PORT Angela</i>
	HUMAN AND MEDICAL GENETICS <i>SACARĂ Victoria</i>
	PLANT GENETICS and BREEDING <i>COTENCO Eugenia</i>
	ANIMAL GENETICS and BREEDING <i>ANDRONIC Larisa</i>
	PLANT and ANIMAL BIOTECHNOLOGY <i>CEPOI Liliana</i>

16:00-16:30	ELECTION OF THE LEADING STAFF OF THE ASSOCIATION Chairs: MICU Vasile, BOTNARI Vasile
16:30-17:00	CLOSING CEREMONY
17:00-19:00	Dinner

WEDNESDAY - July 1, 2015

<i>Visit of the sunflower fields</i>
<i>Visit to the Institutes of Academy of Sciences of Moldova</i>
<i>Individual Cultural Program</i>
<i>Departure of the participants</i>

THURSDAY - FRIDAY - July 2-3, 2015
Training „RESEARCH TECHNIQUES IN MOLECULAR BIOLOGY”
University of the Academy of Sciences of Moldova, 3/2 Academiei Str.

Thursday, July 2, 2015	
8:30 - 9:00	Registration
9:00 – 9:30	Welcome speech <i>DUCA Maria, Rector of the UnASM</i>
9:30 – 10:30	Recent research of the N.I. Vavilov All-Russia Research and Development Institute of Plant Growing <i>DZIUBENCO Nikolai (Russian Federation)</i>
10:30 – 12:00	Genetic resources of oilseed and technical crops <i>GAVRILOVA Vera (Russian Federation)</i>
12:00 – 13:30	Methods of genetic potential assessment among germplasm <i>ANISIMOVA Irina (Russian Federation)</i>
Friday, July 3, 2015	
9:00 – 9:45	Nucleic acids quantitation methods <i>PORT Angela, ŞESTACOVA Tatiana (Moldova)</i>
9:45 – 10:30	PCR: principles and practical aproache <i>PORT Angela, ŞESTACOVA Tatiana (Moldova)</i>
10:30 – 12:00	DNA electrophoresis and spectrophotometry <i>ŞESTACOVA Tatiana (Moldova)</i>
12:00 – 13:30	Molecular screening of plant valuable characters with PCR <i>ŞESTACOVA Tatiana (Moldova)</i>

MONDAY - July 6, 2015

PUBLIC LECTURE

Senate Room, University of the Academy of Sciences of Moldova, 3/2 Academiei Str.

10:30-12:00	THE IMPACT OF iRNA PRODUCTS (SUCH AS THOSE USED IN SOME GENETICALLY MODIFIED PLANTS) ON MAMMALIAN HEALTH. <i>KENNETH W. WITWER - Johns Hopkins University School of Medicine, Baltimore, USA</i>
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POSTER PREZENTATIONS

I. GENERAL AND MOLECULAR GENETICS

Chair: **PORT Angela**

1. *Ancuceanu R., Anghel A. Iu., Dinu M.* ANALYSIS OF HEPATIC GENE EXPRESSION UNDER THE INFLUENCE OF NATURAL FLAVONOIDS
2. *Cheban A., Budak A., Kurshunji D.* RESEARCH ON ACTIVITY OF PROTEINE INHIBITORS, EXTRACTED FROM SEEDS OF SOYBEANS, CHICKPEAS AND BEANS FROM *EX SITU* GENETIC COLLECTION RELATED TO PROTEINASES OF TRIPSIN, CHIMOTRIPSIN AND TRIPSIN-LIKE PROTEINASES FROM PATHOGENE *FUSARIUM OXYSPORUM* (SCHLECHT.) SNYD. ET HANS.
3. *Deaghileva A., Mitin V., Pasha L., Tumanova L.* THE PERSPECTIVE PRIMERS OF TRANSPOSABLE ELEMENT *ACTIVATOR* USED TO HIGHLIGHT THE MOLECULAR POLYMORPHISM OF SWEET PEPPER VARIETIES
4. *Mereacre A., Boz I., Toma C.* CONTRIBUTION TO THE KNOWLEDGE OF VEGETATIVE ORGANS STRUCTURE OF *PAEONIA PEREGRINA* Mill.
5. *Mihășan M.* MOLECULAR CLASSIFICATION AND COMPARATIVE ANALYSIS OF *ARTHROBACTER* GENUS PLASMIDS
6. *Mihășan M.* THE *ARTHROBACTER* GENUS NIC-GENE CLUSTERS SHARE A MODULAR DESIGN
7. *Morari D.* THE ABILITY TO BIOACCUMULATE ZINC (II) BY CYANOBACTERIA *SPIRULINA PLATENSIS*
8. *Pașa L., Mitin V., Deaghileva A., Tumanova L.* THE PRIMERS FROM THE TIR OF MUDR TRANSPOSON – MOLECULAR MARKERS FOR TOMATO GENOTYPES
9. *Șimicova N., Morozov A., Movila A., Toderas I., Deriabina T., Alekhnovici A.* A POTENTIAL ROLE OF DERMACENTOR RETICULATUS TICKS (ACARI, IXODIDAE) AS VECTORS OF TICK-BORNE PATHOGENS IN THE CHERNOBYL EXCLUSION ZONE

II. HUMAN AND MEDICAL GENETICS

Chair: **SACARĂ Victoria**

1. *Andriesh L., O. Schițco, V. Sacară, Rotari I., Pali I.* PRIMARY IMMUNODEFICIENCY. THE PARTICULARITIES AND PROSPECTS OF DIAGNOSIS IN MOLDOVA
2. *Badicean D., Boiciuc K., Hlistun V., Usurelu N., Sacara V.* THE MOST COMMON MUTATIONS IN PAH GENE AND EFFECTIVENES OF THEIR SCREENING IN MOLDAVIAN POPULATION
3. *Barbova N. I.* THE VALUE OF MEDICAL AND GENETIC COUNSELLING IN PREVENTION OF CYSTIC FIBROSIS
4. *Barbova N. I., Egorov V. V., Darii M. V.* DISTRIBUTION OF MUTATIONS IN *CFTR* GENE IN PATIENTS WITH CYSTIC FIBROSIS IN THE POPULATION FROM THE REPUBLIC OF MOLDOVA
5. *Blanita D., Postolate G., Sacara V., Usurelu N.* MITOCHONDRIAL DISORDER: LEIGH SYNDROME - A CASE REPORT.
6. *Böer Roman, Ștefan Gatcan, Usurelu Natalia.* SCREENING OF CONGENITAL HYPOTHYROIDISM (CH) FOR MOLDOVAN INFANTS WITH A HIGH PERFORMANCE TSH NEONATAL SCREENING ELISA.
7. *Boian G., Boian V., Zabun T., Dogotari N.* CLINICAL AND PARA CLINICAL MANAGEMENT IN EARLY ANATOMICAL-TOPOGRAPHICAL DIAGNOSIS OF ANORECTAL ATRESIA IN CHILDREN

8. *Boiciuc K., Hlistun V., Rotari N., Badicean D., Sacara V., Usurelu N.* PHENYLKETONURIA IN REPUBLIC OF MOLDOVA - 25 YEARS OF RESEARCH
9. *Ciochina V.* MORPHOFUNCTIONAL REGULARITIES OF HEART INTRAUTERINE DEVELOPMENT
10. *Ciuntu A.* ACTIVITATEA ENZIMELOR LIZOSOMALE ÎN URINĂ LA COPII CU GLOMERULONEFRITĂ PRIMARĂ
11. *Darii M., Boiciuc K., Barbova N., Sacară V.* MOLECULAR GENETIC ANALYSIS OF CFTR GENE IN CYSTIC FIBROSIS PATIENTS FROM REPUBLIC OF MOLDOVA
12. *Egorov V., Barbova N., Sacara V., Usurelu N.* CLASSIFICATION BY TYPE OF CONGENITAL ANOMALIES IN THE REPUBLIC OF MOLDOVA, ACCORDING TO THE NATIONAL MONITORING FOR 2014 AND 2015, AND COMPARISON WITH THE DATA OF THE INSTITUTE OF MOTHER AND CHILD AND INFORMATION ABOUT ALCOHOL CONSUMPTION AND USE AND FOLIC ACID SUPPLEMENTATION
13. *Furdui T., Glijin A., Ciochina V., Balan I., Vrabie V., Buzan V.* GENETIC FACTORS THAT CAN CAUSE MALE GAMETES DISSANOGENITY
14. *Furdui T., Glijin A., Ciochina V., Berezovscaia E., Bulat O.* GENETIC CONTRIBUTIONS IN DEPRESSION MANIFESTATION
15. *Grosu Iu., Sacară V.* CASE REPORT OF PRENATAL DIAGNOSIS OF DUCHENNE MUSCULAR DYSTROPHY USING DIFFERENT SETS OF PRIMERS
16. *Gurin I., Cemortan I.* MEDICO-GENETIC COUNSELLING IN THE MUNICIPAL CENTER OF PERINATOLOGY OF CHISINAU
17. *Hlistun V., Uşurelu N., Egorov V., Boiciuc C., Parii A., Muntean A., Racilă V., Sacară V.* ASSESSEMENT OF GSTM1, GSTT1, GSTP1 AND MTHFR POLYMORPHISMS IN PREGNANCY LOSSES IN MOLDOVA
18. *Martalog P., Beniș S., Ciuntu A., Balanuța M., Cenușa F.* PARTICULARITĂȚI CLINICO-EVOLUTIVE ÎN BOALA CRONICĂ DE RINICHI LA COPII
19. *Mereuta A.* ПЕРСОНАЛИЗИРОВАННЫЕ ПОДХОДЫ К ДИАГНОСТИКЕ, ПРОФИЛАКТИКИ И ЛЕЧЕНИЮ ЗАБОЛЕВАНИЙ ЧЕЛОВЕКА *INVITRO*
20. *Paladi E., Sprincean M., Pașa D., Hadjiu S.* ANALYSIS OF CLINICAL ASPECTS OF CONGENITAL MALFORMATION OF THE BRAIN
21. *Pisarenco S., Martiniuc C., Condratchi D., Caraiani O., Varzari A.* THE INSERTION/DELETION POLYMORPHISM IN THE ACE GENE AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE IN THE POPULATION OF MOLDOVA
22. *Pisova V. I., Barbova N. I., Egorov V. V.* MONITORING OF CONGENITAL ANOMALIES IN CEADIR-LUNGA REGION OF THE REPUBLIC OF MOLDOVA
23. *Sinițin L., David V., Petrovici V., Șaptefrați L., Boain G., Boian V., Dogotari N.,* IMPORTANCE OF IMMUNOHISTOCHEMICAL INVESTIGATION IN DIAGNOSIS OF COLON DYSPLASTIC MALFORMATIONS IN CHILDREN
24. *Stepan E.* GENETIC RENAL PATHOLOGICAL ISSUES IN CHILDREN
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26. *Usurelu N., Sacara V., Gatcan Ș.* THE STRATEGY OF DEVELOPMENT OF INBORN ERRORS OF METABOLISM IN MOLDOVA
27. *Varzari A., Perlug N., Corloteanu A., Axentii E., Tudor E.* CHEMOKINE GENES POLYMORPHISMS AND PULMONARY TUBERCULOSIS IN THE POPULATION OF MOLDOVA

III. PLANT GENETICS AND BREEDING

Chair: *COTENCO Eugenia*

1. *Agapi I.* CULTURILE COMPARATIVE DE PROVENIENȚĂ ECOLOGICĂ DIFERITĂ - BAZA AMELIORĂRII GENETICE A PĂDURILOR DE STEJAR PEDUNCULAT
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4. *Babičhii A. F.,* РАЗБЪВЛЯЕТСЯ ЛИ БЕЛОК В ЗЕРНОВКЕ ПШЕНИЦЫ ПРИ ПОВЫШЕНИИ УРОЖАЯ
5. *Babičhii A. F.,* ОНТОГЕНЕТИЧЕСКАЯ НАСЛЕДСТВЕННОСТЬ ЭТО ОБЪЕКТИВНАЯ РЕАЛЬНОСТЬ
6. *Balmuş Z., Goncariuc M.* SOIURI DE *SALVIA SCLAREA* L. CREATE ÎN REPUBLICA MOLDOVA
7. *Boroşan P.* UTILIZAREA POPULAȚIILOR SINTETICE LA CREAREA LINIILOR CONSANGVINIZATE DE PORUMB INDURATA.
8. *Botmarencu P.* MODEL DE APRECIERE CORECTĂ A SEGREGĂRII CARACTERELOR PE CLASE FENOTIPICE LA HIBRIZI DIN GENERAȚIA A DOUA
9. *Botmarencu P.* SEMNIFICAȚIA APLICATIVĂ A COEFICIENTULUI DE EREDITARE
10. *Botmari V. F., Кулинчук А. И., Robu T.* ИЗУЧЕНИЕ МЕСТНЫХ ПОПУЛЯЦИЙ НЕСТРЕЛКУЮЩЕГОСЯ ЧЕСНОКА
11. *Bucarciuc V.* VARIABILITATEA PARAMETRIILOR GENETICI PENTRU REZISTENȚA LA RAPĂN ÎN HIBRIDĂRILE DE DIALELĂ ÎN FUNCȚIE DE ANI
12. *Bucarciuc V., Cozmic R.* EREDITATEA CARACTERELOR FRUNZEI LA SOIURILE DE MĂR IMUNE LA RAPĂN ÎN HIBRIDĂRILE DE DIALELĂ
13. *Budac A., Kharchuk O.* DETERMINATION OF SOYBEAN SEED OIL CONTENT IN VARIETIES ASSESSMENT
14. *Butnaraş V., Goncariuc M., Maşcovţeva S., Cotelea L., Balmuş Z.* DESCRIEREA HIBRIZILOR-CLONE PERSPECTIVE DE *LAVANDULA ANGUSTIFOLIA* MILL.
15. *Celac V.* ACHIEVEMENTS AND REPRODUCTIVE CHARACTERISTICS OF SEED CROPS ELITE LEGUMES
16. *Chernets A., Juravel A., Kalashyan Iu., Prodaniuk L., Lukitsa V.* PLUM HYBRIDS SUSCEPTIBILITY TO SHARKA IN THE CONDITIONS OF MOLDOVA
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20. *Cotelea L., Goncariuc M., Balmuş Z., Cernolev E., Butnaraş V., Maşcovţev S.* VARIABILITATEA UNOR CARACTERE CANTITATIVE LA HIBRIZI DE *SALVIA SCLAREA* L., ÎN PRIMUL AN DE VEGETAȚIE

21. Cozmic R. VARIABILITATEA PARAMETRILOR GENETICI PENTRU REZISTENȚA LA FĂINARE ÎN HIBRIDĂRILE DE DIALELĂ ÎN FUNCȚIE DE ANI
22. Cucereavii A., Kaya Y., Tabara O. MOLECULAR SCREENING OF LOCAL SUNFLOWER GERMPLASM FOR DOWNY MILDEW AND RUST RESISTANCE
23. Duca M., Port A., Gisca I., Pacureanu-Joita M., Șestacova T. DIFFERENTIAL EXPRESSION OF ROS-SCAVENGING GENES IN SUNFLOWER INFECTED WITH DIFFERENT BROOMRAPE POPULATIONS
24. Duca M., Port A., Șestacova T., Martea R., Gille E., Goncariuc M. EXPRESSION OF GENES INVOLVED IN SCLAREOL BIOSYNTHESIS IN *SALVIA SCLAREA* L.
25. Duca M., Spring O., Acciu A. MOLECULAR DIVERSITY OF *O. CUMANA* POPULATIONS ASSESSED USING ISSR MARKERS
26. Florea V., Mascenco N., Ivanova R. INFLUENCE OF SOME GLYCOSIDES OF PLANT ORIGIN ON THE SEED YIELD OF FENUGREEK (*TRIGONELLA FOENUM-GRaecum* L.)
27. Florea V.N., Mascenco N. E., Gurev A. S. THE USE OF BIO-REGULATORS OF PLANT ORIGIN FOR GROWING *LINUM USITATISSIMUM* L.
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48. *Nikitinskaya T.V., O.G. Babak, Adzhieva V.F., Pyshnaya O.N., Suprunova T.P., Mamedov M.I., Khoyleva L.V., Kilchevsky A.V.* MOLECULAR MARKER APPLYING FOR SWEET PEPPER BREEDING (*CAPSICUM ANNUUM* L.) OF LETTUCE SAMPLES WITH LOW CADMIUM ACCUMULATION
49. *Orlovskaya O., Kubrak S., Vakula S., Khotyleva L., Kilchevsky A.* MOLECULAR-GENETIC APPROACHES TO IDENTIFICATION OF MAIZE GENOTYPES WITH IMPROVED QUALITY PROTEINS
50. *Pacureanu Joita M., Gabriel Florin Anton, Rasnoveanu L., Cucereavii A., Gasca I.* THE BEHAVIOR OF A SUNFLOWER HYBRIDS SET IN DIFFERENT SOIL AND CLIMATIC CONDITIONS, IN ROMANIA
51. *Pasat O.* PRECOCITATE DE RODIRE A HIBRIZILOR DE PĂR.
52. *Postolati A.* TRENDS AND RESULTS OF RESEARCHES ON WINTER WHEAT BREEDING IN THE CONDITIONS OF BALTI STEPPE OF REPUBLIC OF MOLDOVA
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54. *Romanciuc G.* INFORMATION STANDARDS FOR PLANT GENE BANK
55. *Rotari E., Rotari A., Comarova G., Maticiuc V., Fratea S.* STUDIUL LEGĂTURILOR FUNCȚIONALE ÎNTRE INDICELE DE PLUTIRE A BOABELOR CU PARAMETRII BIOCHIMICI AI CALITĂȚII ȘI VIABILITĂȚII SEMINȚELOR DE PORUMB
56. *Rotari S., Buiucli P.* AMELIORAREA GRĂULUI DURUM DE TOAMNĂ ÎN REPUBLICA MOLDOVA
57. *Rusu G., Borozan P., Musteața S.* THE MODIFICATION OF SINGLE CROSS HYBRIDS OF EARLY MAIZE
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61. *Siniuskaya M.G., Lukhanina N.V., Shymkevich A.M., Davydenko O.G.* THE STUDY OF ORGANELLAR GENE EXPRESSION IN BARLEY

62. *Ștromeatnicov Iu., Cotenco E., Ciobanu R., Iurea D.* CARACTERISTICA SOIURILOR DE TOMATE DUPĂ CARACTERELE ECONOMIC VALOROASE
63. *Ștînic V.* THE INTERACTION NETWORK BETWEEN GENES INVOLVED IN DEFENSIVE RESPONSE OF SUNFLOWER (*HELIANTHUS ANNUUS*) TO BROOMRAPE (*OROBANCHE CUMANA*)
64. *Smerea S.* ASSESSING THE IMPACT OF COMMON ACTION OR LONELY OF BARLEY STRIPE MOSAIC VIRUS AND GAMMA RAYS ON WHEAT PRODUCTIVITY INDICES
65. *Spring O.* MOLECULAR TOOLS FOR TRACING BIOTROPHIC PATHOGENS IN CROP PLANTS
66. *Știngaci A., Zavtony P.* ENTORNOPATHOGENIC VIRUSES DIVERSITY AND USE AS BIOINSECTICIDES
67. *Stratulat T.G., Dascaliuc A.P., Todiras V.A.* EXPERIMENTAL EVALUATION OF THE MUTAGENIC ACTIVITY OF PLANT GROWTH REGULATOR REGLAG - 1
68. *Sysoliatin E.N., Babak O.G., Taranucho G.I., Kilchevskij A.V.* EST-SSR GENOTYPING OF YELLOW LUPINE (*LUPINUS LUTEUS*) IN BELARUS
69. *Șestacova T., Port A., Miladinović D., Duca M.* TRANSCRIPTIONAL ACTIVITY OF PATHOGENESIS-RELATED GENES DURING SUNFLOWER-DOWNY MILDEW INTERACTION
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71. *Temirbekova S.K., Kulikov I.M., Ionova N.E., Afanasyeva U.V.* BIOLOGICAL CHARACTERISTICS OF SAFFLOWER TINCTORIAL IN THE MOSCOW REGION.
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79. *Zhuchenko A.A. Jr.* ENVIRONMENT-IMPROVING PHYTOTECNOLOGIES FOR MEGACITIES

IV. ANIMAL GENETICS AND BREEDING

Chair: ANDRONIC Larisa

1. *Boronciuc Gh., Balan I., Buzan V., Cazacov Iu., Bucarciuc M., Roșca N., Mereuța I.* THE POSSIBILITY OF CONSERVATION OF GENETIC RESOURCES
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3. *Eremia N., Modvala S., Chiriac A.* INFLUENCE OF FEED ADDITIVE VITACORM AD-1 TO STIMULATE RESISTANCE TO WINTERING OF BEE FAMILIES
4. *Eremia N., Scripnic E., Zagareanu A., Modvala S.* BREEDING AND REPRODUCTION OF LOCAL CARPATHIAN BEES
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V. PLANT AND ANIMAL BIOTECHNOLOGY

Chair: CEPOI Lîliana

1. *Budeanu O., Acciu A., Škoric D., Tabără O.* MACRO AND MICROBIOTA AS LIMITING FACTORS IN PROPAGATION OF *OROBANCHE CUMANA* WALLR.
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3. *Burducea M., Lobiuc A., Toma C., Zamfirache Maria-Magdalena.* MORPHO-ANATOMICAL ASPECTS OF TWO BASIL CULTIVARS PLANTLETS UNDER EXPERIMENTAL HEAVY METAL CONTAMINATION
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5. *Corlăteanu L.B.* INFLUENCE OF MILLIMETER RADIATION ON VIABILITY OF SEEDS OF VARIOUS PLANT SPECIES AFTER *EX SITU* CONSERVATION
6. *Derendovskaia Antonina, Secieru Silvia.* GROWTH REGULATORS OF STEROIDAL NATURE IN TECHNOLOGY CULTIVATION OF WINTER BARLEY
7. *Djur S., Bulimaga V., Chiriac T., Rudic V.* ПОЛИПЕПТИДНЫЙ СПЕКТР СУММАРНОГО БЕЛКА СПИРУЛИНЫ, КУЛЬТИВИРУЕМОЙ В ПРИСУТСТВИИ СОЕДИНЕНИЙ GeO_2 И Ge_3Se_2
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10. *Gorceag M.* APPLICATION OF BIOTECHNOLOGICAL TOOLS IN FORESTRY
11. *Grigoras V., Necula R., Gille E., Gatea F., Budeanu O.* *ORIGANUM VULGARE* - QUANTITATIVE ASSESSMENT OF ACTIVE PRINCIPLES AND ANTIOXIDANT ACTIVITY IN RELATION WITH SOME ENVIRONMENTAL FACTORS
12. *Grigorov T.* EFFECT OF VIRAL INFECTION AND GAMMA RAY ON REGENERATION CAPACITY OF BARLEY EMBRYO-DERIVED CALLUS
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14. *Mirgorod Yu., Maslobrod S.* USING PLANTS SATURATED BY NANOPARTICLES AS A PHOTOELECTROCHEMICAL CELL
15. *Mirza A.* THE CUTTINGS ROOTING OF DIFFERENT CULTIVARS OF BLACKBERRY X RASPBERRY HYBRIDS
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18. *Rudi L., Valuța A., Cepoi L., Chiriac T., Codreanu S., Djur S., Dumbrăveanu V., Doni V., Chelmenciu V.* ANTIOXIDANT ACTIVITY OF ETHANOL EXTRACTS FROM *NOSTOC LINCKIA* BIOMASS
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24. *Veliksar S., Toma S., Lemanova N., David T., Tudorache Gh., Carpenco E.* INCREASING OF VINE RESISTANCE TO UNFAVORABLE GROWING CONDITIONS BY USING OF TRACE ELEMENTS AND MICROORGANISMS COMPOSITIONS

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- Institute of Ecology and Geography, ASM, Chisinau, **R. Moldova**
- Institute of Field and Vegetable Crops Serbian Academy of Sciences and Arts, **Serbia**
- Institute of Genetics and Cytology of NAS of Belarus, Minsk, **Republic of Belarus**
- Institute of Genetics, Physiology and Plant Protection, ASM, Chisinau, **R. Moldova**
- Institute of Microbiology and Biotechnology, ASM, Chisinau, **Moldova**
- Institute of Mother and Child, Dept. of Medical Genetic, Warsaw, **Poland**
- Institute of Phthisiopneumology „Chiril Draganiuc”, Human Genetics Laboratory, **R. Moldova**
- Institute of Physiology and Sanocreatology, ASM, Chisinau, **R. Moldova**
- Institute of Zoology, ASM, Chisinau, **R. Moldova**
- Institute of Mother and Child, Chisinau, **R. Moldova**
- Institute “Alfred Rusescu”, Bucharest, **R. Moldova**
- ISSMV, Dalaba, **Guineea**
- National Agricultural Research and Development Institute – Fundulea, **Romania**
- National Institute of Research and Development for Biological Sciences Bucharest, **Romania**
- PMSI Municipal Clinical Hospital No1, Center of Perinatology, Chisinau, **Moldova**
- “Prof. Dr. Alex. Obregia” Clinical Hospital of Pathology, Bucharest, **Romania**
- Research Center of Advanced Robotics and Environmental Science, Cybertronica Research, Stuttgart, **Germany**
- Research Institute of Field Crops “Selectia”, Balti, **R. Moldova**
- Russian Selection and Technological Institute of Horticulture and Nursery Sciences Academy, **Russia**
- Scientific and Practical Institute by Biotechnologies in Animal Husbandry and Veterinary Medicine, Maximovca, **Moldova**
- Scientific and Practical Institute of Horticulture and Food Technology, Chisinau, **R. Moldova**
- Scientific Practical Center for Bioresources, Minsk, **Republic of Belarus**
- Spitalul Clinic Filantropia, Bucharest, **Romania**
- UK-Moldova Link, London, **Great Britain**
- Victor Babes National Institute of Pathology, Bucharest, **Romania**