

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL ACADEMY OF AGRARIAN SCIENCES OF UKRAINE
NATIONAL ACADEMY OF EDUCATIONAL SCIENCES OF UKRAINE
MYKOLAIV REGIONAL MILITARY ADMINISTRATION**

**MYKOLAIV NATIONAL AGRARIAN UNIVERSITY, UKRAINE
INTERNATIONAL ACADEMY OF APPLIED SCIENCES IN ŁÓDŹ, POLAND
TORAIGHYROV UNIVERSITY IN PAVLODAR, KAZAKHSTAN
TASHKENT STATE AGRARIAN UNIVERSITY, UZBEKISTAN
STATE BIOTECHNOLOGY UNIVERSITY, UKRAINE
NATIONAL UNIVERSITY OF FOOD TECHNOLOGIES, UKRAINE**



“BIOLOGICAL, BIOTECHNOLOGICAL AND GENETIC ASPECTS OF AGRICULTURAL PRODUCTION ENHANCEMENT”

**PROGRAM
OF THE INTERNATIONAL SCIENTIFIC AND PRACTICAL
CONFERENCE**

(Registration № 614 від 25.12.2023)

October 24-25, 2024

Mykolaiv



CONFERENCE SCHEDULE:

October 24, 2024

Registration of conference participants, introduction to the university departments

Plenary session (at 12⁰⁰ GMT+3, Ukraine).

25 жовтня 2024 року

Work in sections (10⁰⁰ - 15⁰⁰ GMT+3, Ukraine).

Summary of the results.

TIME REGULATIONS:

Reports during the Plenary session - up to 15 min.

Reports during the work in sections - up to 7 minutes.

Speeches in the discussion - up to 5 minutes.

MEMBERS OF THE ORGANIZING COMMITTEE OF THE
INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE
“**BIOLOGICAL, BIOTECHNOLOGICAL AND GENETIC ASPECTS OF
AGRICULTURAL PRODUCTION ENHANCEMENT**”

Head of the organizing committee:

V. SHEBANIN – Rector of Mykolaiv National Agrarian University, Doctor of Technical Sciences, Professor, Academician of the National Academy of Sciences of Ukraine, Academician of the National Academy of Sciences of Ukraine, Honored Worker of Science and Technology of Ukraine

Head of the Scientific Committee:

M. GILL – Dean of the Faculty of Livestock Production and Processing Technology, Standardization and Biotechnology, Doctor of Agricultural Sciences, Professor, Member of the National Academy of Sciences of Ukraine, Academician of the National Academy of Sciences of Ukraine

Deputy Head of the Scientific Committee:

O. KARATIEIEVA – Head of the Department of Biotechnology and Bioengineering, Mykolaiv National Agrarian University, PhD in Agriculture, Associate Professor, Ukraine

Conference Organizing and Scientific Committee:

T. BEKSEITOV – Dean of the Faculty of Toraighyrov University, Doctor of Agricultural Sciences, Professor, Academician of the Academy of Agricultural Sciences, Kazakhstan;

J. LISOWSKI – Doctor of Engineering, Professor of MANS, International Academy of Applied Sciences in Lomza, Poland;

O. SHCHERBAK – Dean of the Faculty of Biotechnology, State Biotechnology University (Kharkiv), PhD in Agriculture, Professor, Ukraine;

V. STABNIKOV – Head of the Department of Biotechnology and Microbiology of the National University of Chemical Technology (Kyiv), Professor of the Department of Biotechnology and Bioengineering of Mykolaiv National University, Doctor of Technical Sciences, Professor, Ukraine;

S. KRAMARENKO – Professor of the Department of Biotechnology and Bioengineering, Mykolaiv National University, Doctor of Biological Sciences, Professor, Academician of the National Academy of Sciences of the USA, Ukraine;

O. YULEVYCH – Associate Professor of the Department of Biotechnology and Bioengineering, Mykolaiv National University, PhD in Engineering, Associate Professor, Ukraine;

E. BARKAR – Associate Professor of the Department of Biotechnology and Bioengineering, Mykolaiv National Agrarian University, PhD in Agriculture, Associate Professor, Ukraine;

O. KRAMARENKO – Associate Professor of the Department of Biotechnology and Bioengineering, Mykolaiv NAU, PhD in Agriculture, Associate Professor, Ukraine;

I. LIUTA - Assistant of the Department of Biotechnology and Bioengineering, Mykolaiv National Agrarian University, Master of Science in Livestock Production Technology, Ukraine;

V. POSUKHIN – Assistant of the Department of Biotechnology and Bioengineering, Mykolaiv National Agrarian University, Master of Science in Livestock Production Technology, Ukraine

PLENARY SESSION
October 24, 2024, 12⁰⁰
Mykolaiv National Agrarian University

Join the Zoom conference:

<https://us05web.zoom.us/j/5137006821?pwd=bjJJK01CVFNZTStGOWJ3UHpoZndHZz09>

Conference ID: 513 700 6821

Access code: bcmtV4

Topic:

- 1. WELCOME SPEECH OF THE RECTOR OF THE MYKOLAIV NATIONAL AGRARIAN UNIVERSITY**
- 2. MODERN BIOTECHNOLOGIES IN CROP PRODUCTION. OXYTREE – THE TREE OF THE FUTURE**
- 3. BIOESSENTIAL ELEMENTS AND BLOOD CAROTENE OF FIRST-BORN HEIFERS OF DIFFERENT PRODUCTIVITY LEVELS**
- 4. QUALITY OF RESORBABLE CERAMIC MATERIALS USED IN HUMAN BONE REPLACEMENT AND RELATED SAFETY ASPECTS OF BIOTECHNOLOGICAL PRODUCTION**
- 5. MILK PRODUCTIVITY AND BEHAVIOR INDICATORS OF IMPORTED EUROPEAN CATTLE IN HOT CLIMATE CONDITIONS**
- 6. THE INFLUENCE OF CLIMATE CHANGES ON FEED BASES FROM THE REPUBLIC OF MOLDOVA**
- 7. RESULTS OF EMBRYO TRANSPLANTATION OF CATTLE IN LLP "ZHANA-KALA"**
- 8. THE ROLE OF MODERN BIOTECHNOLOGY IN ACHIEVING THE**

Speakers:

- V. SHEBANIN, Doctor of Engineering, Professor, Academician of NAAS, Academician of NASWO, Mykolaiv National University, Ukraine
- Janusz LISOWSKI, Dr. inż., Wyższa Szkoła Agrobiznesu w Łomży, Poland
- S. PISHCHAN, Doctor of Agricultural Sciences, Professor,
- I. PISHCHAN, Candidate of Agricultural Sciences, Senior Lecturer,
- L. LYTVYSHCHENKO, Candidate of Agricultural Sciences, Associate Professor,
- L. MYKOLAICHUK, Doctor of Philosophy, Candidate of Agricultural Sciences, Senior Lecturer, Dnipro State Agricultural University, Ukraine,
- Serhii KARLOV, Sjefteknolog i gårdsbedriften Iver Tyldum, Høylandet, Norge
- Hans-Joachim FRUEH, Dr.-Ing., Sr Engineering Manager,
- Anastasiia LOVYNSKA, B.Sc., Manufacturing Engineer, Medtronic Sofamor Danek Deggendorf, Germany
- ISAMUXAMEDOV Solih Shukurovich,
- YULDASHEV Alo Askarovich, Tashkent State Agrarian University, Uzbekistan
- CAISIN Larisa, Dr. hab., Professor, Technical University of Moldova, Republic of Moldova
- ATEIKHAN Bolatbek, PhD, Associate Professor, BEXEITOV Toktar, Doctor of Agricultural Sciences, Professor,
- SEYTEUOV Talgat, PhD, Professor, KAINIDENOV Nursultan, Master of Technical Sciences, «Toraighyrov University», Kazakhstan
- M. BEZUHLYI, Doctor of Agricultural Sciences, Professor, Academician of the

**MAXIMUM GENETIC POTENTIAL OF
DAIRY CATTLE**

**9. THE INFLUENCE OF THE
PHYSIOLOGICAL STATE OF THE
YEAST INDUCER ON THE
BIOLOGICAL ACTIVITY OF
RHODOCOCCUS ERYTHROPOLIS IMV
AC-5017 SURFACTANTS**

**10. BIOTECHNOLOGICAL
APPROACHES TO CONSERVATION OF
THE WHITE-HEADED UKRAINIAN
CATTLE BREED**

**11. GENETIC AND PHYSIOLOGICAL
FEATURES OF THE USE OF SIRE
BULLS IN BIOTECHNOLOGY OF *BOS*
TAURUS *PRIMIGENUIS*
REPRODUCTION**

National Academy of Agrarian Sciences
of Ukraine,

O. SHCHERBAK, Candidate of Agricultural
Sciences, Professor, State
Biotechnological University, Ukraine

Anastasiia OKHMAKEVYCH, National
University of Food Technologies,
Ukraine,

Tetiana PIROG, National University of Food
Technologies, Ukraine, Institute of
Microbiology and Virology, National
Academy of Sciences of Ukraine, Kyiv,
Ukraine,

Liliia KLIUCHKA, National University of
Food Technologies, Ukraine

S. KOVTUN, Doctor of Agricultural
Sciences, Professor, Academician of the
National Academy of Agrarian Sciences
of Ukraine, M.V. Zubets Institute of
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V. MELNYK, Doctor of Agricultural
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Agrarian Sciences of Ukraine,

V. KOZYR, Doctor of Agricultural Sciences,
Professor, Academician of NAAS,
Institute of Cereals of NAAS, Ukraine,

M. GILL, Doctor of Agricultural Sciences,
Professor, Academician of the National
Academy of Sciences of Ukraine,
Mykolaiv National Agrarian University,
Ukraine

WORK IN SECTIONS:

October 24, 2024, 10⁰⁰

Mykolaiv National Agrarian University

Section 1: Biological aspects for agricultural production, veterinary medicine and food technology

Head of the sectional meeting:

LUGOVYI Serhii Ivanovych, Doctor of Agricultural Sciences, Professor, Mykolaiv National Agrarian University, Ukraine

Secretary of the sectional meeting:

*KALYNYCHENKO Halyna Ivanivna, Candidate of Agricultural Sciences, Associate Professor, Mykolaiv National Agrarian University, Ukraine
(e-mail - kalinichenko@mnaueu.ua)*

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Conference ID: 844 1173 3614

Access code: 2024

Topic:	Speakers:
1. EVALUATION OF THE PROPERTIES OF DIFFERENT STRAINS OF <i>SALMONELLA</i> USING DIFFERENT METHODS	O. KARATEEVA, Candidate of Agricultural Sciences, Associate Professor, A. BODYUL, master student, MNAU, Ukraine
2. PRIMARY SCREENING OF PECTINOLYTIC ACTIVITY OF <i>TRAMETES HIRSUTA</i> STRAINS	P. ZUBYK, postgraduate student, I. KLECHAK, Candidate of Technical Sciences, Associate Professor, NTUU “Igor Sikorsky Kyiv Polytechnic Institute”, Ukraine
3. PRODUCTIVE AND BIOLOGICAL CHARACTERISTICS OF PIGS OF MEAT GENOTYPES	A. KARATEEV, Postgraduate student, M. GILL, Doctor of Agricultural Sciences, Professor, Academician of the National Academy of Sciences of Ukraine, MNAU, Ukraine
4. PRODUCTIVE AND BIOLOGICAL CHARACTERISTICS OF HOLSTEIN CATTLE UNDER INTENSIVE TECHNOLOGIES OF USE	S. SHVETS, Postgraduate student, M. GILL, Doctor of Agricultural Sciences, Professor, Academician of the National Academy of Sciences of Ukraine, MNAU, Ukraine
5. ADAPTIVE PROPERTIES OF PIGS IN THE NORTHERN BLACK SEA REGION	G. KALYNYCHENKO, Candidate of Agricultural Sciences, Associate Professor, MNAU, Ukraine
6. ASSESSMENT OF INTERBREED DIFFERENTIATION OF LOCAL PIG BREEDS IN UKRAINE	S. LUHOVYI, Doctor of Agricultural Sciences, Professor, MNAU, Ukraine
7. BIOESSENTIAL ELEMENTS AND BLOOD CAROTENE OF FIRST-BORN HEIFERS OF DIFFERENT LEVELS OF MILK PRODUCTION	S. PISHCHAN, Doctor of Agricultural Sciences, Professor, PISHCHAN I. S., Candidate of Agricultural Sciences, Senior Lecturer,

8. **DEPENDENCE OF FUNCTIONAL LIFE OF DAIRY COWS ON THE LEVEL OF ASSESSMENT OF LINEAR UDDER TRAITS**
 9. **SURVIVAL RATE OF DAIRY HEIFER CALVES FROM BIRTH TO THE AGE OF FIRST INSEMINATION**
 10. **EFFICIENCY OF PUREBRED AND HYBRID PIGS IN INDUSTRIAL COMPLEXES**
 11. **EFFICIENCY OF USING SELECTION TRAITS OF REPAIR HEIFERS FOR EARLY PREDICTION OF MILK PRODUCTION**
 12. **IMPACT OF CLIMATE CHANGE ON THE BIOPRODUCTIVITY OF PLANTS AND ANIMALS**
 13. **EVALUATION OF THE FERMENTATION KINETICS IN *LIMOSILACTOBACILLUS REUTERI* AND *LACTOBACILLUS ACIDOPHILUS***
 14. **INDICATORS OF BEEF PRODUCTION DEVELOPMENT IN UKRAINE**
 15. **THE INFLUENCE OF CLIMATE CHANGES ON FEED BASES FROM THE REPUBLIC OF MOLDOVA**
 16. **PROSPECTS FOR IMPROVING THE BREEDING PROCESS IN LIVESTOCK PRODUCTION IN UKRAINE USING MATHEMATICAL ALGORITHMS AND ARTIFICIAL INTELLIGENCE TOOLS**
 17. **SOME ASPECTS OF FEEDING YOUNG LACON SHEEP IN THE CONDITIONS OF PODILLYA**
- L. LYTIVYSHCHENKO, Candidate of Agricultural Sciences, Associate Professor,
- L. MYKOLAICHUK, Doctor of Philosophy, Candidate of Agricultural Sciences, Senior Lecturer, Dnipro SAEU, Ukraine,
- Serhii KARLOV, Chief Technologist at the Farm Company Iver Tyldum, Høylandet, Norway
- L. KHMELNYCHYI, Doctor of Agricultural Sciences, Professor, Sumy NAU, Ukraine
- R. STAVETSKA, Doctor of Agricultural Sciences, Professor, Bila Tserkva NAU, Ukraine
- V. SUDYKA, Candidate of Agricultural Sciences, Associate Professor, Bila Tserkva NAU, Ukraine
- I. TYTARENKO, Candidate of Agricultural Sciences, Associate Professor, Bila Tserkva NAU, Ukraine
- V. KUSHNERENKO, Candidate of Agricultural Sciences, Associate Professor, Kherson SAEU, Ukraine
- A. DMYTRIV, PhD student, Lviv Polytechnic National University
- V. PRUDNIKOV, Doctor of Agricultural Sciences, Professor,
- O. KOLESNYK, Doctor of Agricultural Sciences, Senior Lecturer,
- A. DYDYKINA, Candidate of Agricultural Sciences, Head of the Center for Education Quality Management,
- I. BODNARCHUK, Senior Lecturer, State Biotechnology University, Ukraine
- CAISIN Larisa, Dr. hab., Professor, Technical University of Moldova, Republic of Moldova
- A. HETIA, Doctor of Agricultural Sciences, Professor, National University of Life Sciences of Ukraine, Ukraine
- A. TSVIGUN, Doctor of Agricultural Sciences, Professor, M.F. Ivanov Institute of Steppe Livestock "Askania-Nova" - National Scientific Breeding

and Genetic Center for Sheep Breeding
of NAAS, Ukraine,

L. PONKO, Candidate of Agricultural
Sciences, Assistant, Podilskyi State
University, Ukraine

18. EFFICIENCY OF PREMIX USE DURING THE COW'S CALVING PERIOD

O. RAZANOVA, Candidate of Agricultural
Sciences, Associate Professor,
Vinnitsia National Agricultural
University, Ukraine

19. VEGETATIVE REGULATION OF OMEGA-6 FATTY ACIDS METABOLISM IN GOATS

O. ZHURENKO, Doctor of Veterinary
Sciences, Professor,

B. BOYCHUK, Postgraduate student,

I. HRYSHCHUK, Doctor of Philosophy,

V. KARPOVSKYI, Doctor of Veterinary
Sciences, Professor, Academician of the
National Academy of Sciences of
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D. KRYVORUCHKO, Candidate of
Veterinary Sciences, Associate
Professor,

V. ZHURENKO, Candidate of Veterinary
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V. TODORIUK, Doctoral student, Candidate
of Veterinary Sciences,

V. KARPOVSKYI, Candidate of Veterinary
Sciences,

P. KARPOVSKYI, Candidate of Veterinary
Sciences,

A. GRYSHCHUK, Candidate of Veterinary
Sciences, Associate Professor, NUBiP
of Ukraine, Ukraine

20. PROTEIN METABOLISM OF LAYING HENS WITH DIFFERENT TONE OF THE AUTONOMIC NERVOUS SYSTEM

O. ZHURENKO, Doctor of Veterinary
Sciences, Professor,

O. KULBAKO, PhD student,

I. HRYSHCHUK, Doctor of Philosophy,

V. KARPOVSKYI, Doctor of Veterinary
Sciences, Professor, Academician of the
National Academy of Sciences of
Ukraine,

D. KRYVORUCHKO, Candidate of
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V. ZHURENKO, Candidate of Veterinary
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M. ILCHYSHEN, PhD student,

V. TODORIUK, Doctoral student, Candidate
of Veterinary Sciences,

V. KARPOVSKYI, Candidate of Veterinary
Sciences,

P. KARPOVSKYI, Candidate of Veterinary
Sciences,

P. KHIMENETS, PhD student,

21. INDICATORS OF MEDIUM-CHAIN FATTY ACIDS IN THE BODY OF COWS WITH DIFFERENT VEGETATIVE REGULATION

22. THE EFFECT OF PREBIOTIC FEED ADDITIVE ON THE PERFORMANCE OF GEESSE

23. ROMISING TECHNOLOGIES OF FODDER PRODUCTION IN THE CONTEXT OF GLOBAL WARMING

24. TRADITIONAL PIG BREEDS FOR ORGANIC PORK PRODUCTION IN UKRAINE

- S. KRAVCHUK, Postgraduate student,
R. GRELYA, Postgraduate student,
A. GRYSHCHUK, Candidate of Veterinary Sciences, Associate Professor,
B. BOYCHUK, Postgraduate student, NUBiP of Ukraine, Ukraine
O. ZHURENKO, Doctor of Veterinary Sciences, Professor,
I. HRYSHCHUK, Doctor of Philosophy,
V. KARPOVSKYI, Candidate of Veterinary Sciences,
D. KRYVORUCHKO, Candidate of Veterinary Sciences, Associate Professor,
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E. FEDOROVYCH, Doctor of Agricultural Sciences, Professor, Corresponding Member of NAAS,
V. FEDOROVYCH, Doctor of Agricultural Sciences, Senior Research Scientist, Institute of Animal Biology, NAAS, Ukraine
R.L. SUSOL, Doctor of Agricultural Sciences, Professor,
S. ARAPAKI, Postgraduate student,
I. STULNYK, Postgraduate student, Odesa State Agricultural University, Ukraine
O. TSERENIUK, Doctor of Agricultural Sciences, Professor,
V. RYBALKO, Doctor of Agricultural Sciences, Academician of the National Academy of Agrarian Sciences of Ukraine,
V. VOVK, Candidate of Agricultural Sciences,
O. AKIMOV, PhD in Agriculture, Senior

Research Scientist, Institute of Pig
Production and Agroindustrial
Production, NAAS, Ukraine

**25. CHARACTERIZATION OF STRAINS OF
PHYTOPATHOGENIC BACTERIA
ISOLATED FROM POTATO TUBERS
AFFECTED BY SOFT ROT**

E. ARKHIPOVA

Y. KOLOMIETS, Doctor of Agricultural
Sciences, Professor, National University
of Life Sciences of Ukraine, Ukraine,

L. BUCENKO, Candidate of Biological
Sciences, Research Scientist,
D.K. Zabolotny Institute of
Microbiology and Virology, National
Academy of Sciences of Ukraine,
Ukraine

**26. ADAPTIVE CAPACITY OF SHEEP TO
THE CONDITIONS OF ARID CLIMATE
OF THE SOUTHERN BUH REGION**

I. KRAVTSOVA, Postgraduate student,

T. NEZHLYUKCHENKO, Doctor of
Agricultural Sciences, Professor,
Mykolaiv NAU, Ukraine

**27. BIOLOGICAL COMPOSITION OF
WOOL OF TSIGAY SHEEP OF
DIFFERENT SEX AND AGE GROUPS**

A. KITAYEVA, Doctor of Agricultural
Sciences, Professor,

I. SLUSARENKO, Doctor of Philosophy,

A. NOVICHKOVA, researcher

V. MAMEDOVA, researcher, Odesa State
Agricultural University, Ukraine

Section 2: Genetic aspects for agricultural production, veterinary medicine and food technology

Head of the sectional meeting:

BARANOVSKY Dmytro Ivanovych Candidate of Agricultural Sciences, Professor, State Biotechnology University, Ukraine

Secretary of the sectional meeting:

*KRAMARENKO Oleksandr S., Candidate of Agricultural Sciences, Associate Professor, Mykolaiv National Agricultural University, Ukraine
(e-mail - kssnail1990@gmail.com)*

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Conference ID: 419 106 2752

Access code: 358947

Тема:

1. ASSOCIATION BETWEEN HETEROZYGOSITY AT DNA MICROSATELLITES AND PRODUCTIVITY OF FARM ANIMALS

2. BIOINFORMATICS ANALYSIS OF DGAT1 GENE POLYMORPHISM AND ITS RELATION TO ECONOMICALLY VALUABLE TRAITS OF *BOS TAURUS*

3. GENETIC AND PHYSIOLOGICAL FEATURES OF THE USE OF SIRE BULLS IN BIOTECHNOLOGY OF *BOS TAURUS PRIMIGENUIS* REPRODUCTION

4. EFFICIENCY OF MOLECULAR GENETIC MARKERS APPLICATION IN DAIRY FARMING

5. APPLICATION OF MOLECULAR GENETIC MARKERS IN GOAT BREEDING

6. RESTORATION OF THE GENEALOGICAL STRUCTURE OF THE MYRHOROD PIG BREED USING GENETIC EVALUATION METHODS

Доповідачі:

O. KRAMARENKO, Candidate of Agricultural Sciences, Associate Professor,

S. KRAMARENKO, Doctor of Biological Sciences, Professor, MNAU, Mykolaiv, Ukraine

S. KRAMARENKO, Doctor of Biological Sciences, Professor,

A. CHERNENKO, Master's student, MNAU, Mykolaiv, Ukraine

V. MELNYK, Doctor of Agricultural Sciences, Associate Professor, Academician of the National Academy of Agrarian Sciences of Ukraine,

V. KOZYR, Doctor of Agricultural Sciences, Professor, Academician of NAAS, Institute of Cereals of NAAS, Ukraine,

M. GILL, Doctor of Agricultural Sciences, Professor, Academician of the National Academy of Sciences of Ukraine, Mykolaiv National Agrarian University, Ukraine

O. BABENKO, Candidate of Agricultural Sciences, Associate Professor, Bila Tserkva NAU, Ukraine

I. STAROSTENKO, Candidate of Agricultural Sciences, Associate Professor, Bila Tserkva NAU, Ukraine

P. VASHCHENKO, Doctor of Agricultural Sciences, Professor, Poltava State Agricultural University, Ukraine,

**7. PITUITARY SPECIFIC
TRANSCRIPTION FACTOR GENE (*PIT1*) AS
A BREEDING TRAIT IN COWS**

**8. ANALYSIS OF THE FORMATION OF
THE BREEDING BASE OF GENETIC
RESOURCES OF CATTLE OF SOUTHERN
BEEF BREED**

**9. EVALUATION OF THE
REALIZATION OF THE BREEDING VALUE
OF BULLS IN THE "KROK-**

A. SAYENKO, Candidate of Agricultural Sciences, Research Scientist, Institute of Pig Production and Animal Production of NAAS, Ukraine,

A. INKOL, Postgraduate student, Institute of Pig Production and Animal Production of NAAS, Ukraine

M. SKYBA, Postgraduate student,

M. ILCHENKO, Candidate of Agricultural Sciences, Senior Researcher, Associate Professor,

B. SHAFERIVSKYI, PhD in Agricultural Sciences, Associate Professor, Poltava State Agricultural University, Ukraine

L. DEDOVA, Researcher, M.V. Zubets Institute of Animal Breeding and Genetics, NAAS, Ukraine,

N. KUDRYK, Candidate of Agricultural Sciences, Research Scientist, M.F. Ivanov Institute of Steppe Livestock "Askania-Nova" - National Scientific Breeding and Genetic Center for Sheep Breeding, NAAS, Ukraine,

P. JUS, Candidate of Biological Sciences, Senior Researcher, M.V. Zubets Institute of Animal Breeding and Genetics, NAAS, Ukraine;

O. SYDORENKO, Candidate of Agricultural Sciences, Research Scientist, M.V. Zubets Institute of Animal Breeding and Genetics of NAAS, Ukraine, M.F. Ivanov Institute of Steppe Livestock "Askania-Nova" - National Scientific Breeding and Genetic Center for Sheep Breeding of NAAS, Ukraine,

H. BONDARUK, Researcher, M.V. Zubets Institute of Animal Breeding and Genetics, NAAS, Ukraine,

N. CHOP, Researcher, M.V. Zubets Institute of Animal Breeding and Genetics, NAAS, Ukraine,

N. MARCHENKO, Researcher, M.V. Zubets Institute of Animal Breeding and Genetics, NAAS, Ukraine

KOVALENKO Hryhoriy, Candidate of Agricultural Sciences, leading researcher, Institute of Animal

UKRZALIZBUD" DAIRY CATTLE HERD

Breeding and Genetics n.a.
M.V. Zubets of the NAAS, Ukraine,
GALIOSA Galyna, leading zootechnician,
Institute of Animal Breeding and
Genetics n.a. M.V. Zubets of the
NAAS, Ukraine,
SKOMAROVSKYI Denys, Student, Sumy
NAU, Ukraine

10. HETEROSIS IN THE DESIGN OF PIGS OF DIFFERENT ORIGIN (ГЕТЕРОЗИС ПРИ ПРОЄДНАННІ СВИНЕЙ РІЗНОГО ПОХОДЖЕННЯ)

O. TKACHUK, Assistant professor,
D. BARANOVSKY, Candidate of
Agricultural Sciences, Associate
Professor, State Biotechnological
University, Ukraine

11. PRODUCTION AND STUDY OF T₁ GENERATION OF KALE WITH THE COLICIN GENE

O. OVCHARENKO, Candidate of
Biological Sciences,
M. VASYLENKO

V. RUDAS, Candidate of Biological
Sciences,

M. KUCHUK, Doctor of Biological
Sciences, Institute of Cell Biology
and Genetic Engineering, NAS,
Ukraine

12. BREEDING AND GENETIC PARAMETERS OF THE MAIN TRAITS OF PRODUCTIVITY AND REPRODUCTIVE CAPACITY OF EWES OF THE BREEDING PLANT OF THE PRECOS BREED

I. POMITUN, Doctor of Agricultural
Sciences, Professor,

N. KOSOVA, Candidate of Agricultural
Sciences, Research Scientist,

L. PANKIV, Candidate of Agricultural
Sciences, Senior Researcher,

BEZVESILNA A.V., Researcher, Institute
of Animal Husbandry, NAAS,
Ukraine

13. INFLUENCE OF GENOTYPE ON THE INTENSITY OF GROWTH AND DEVELOPMENT OF PIGLETS

A. BESNOSIUK, PhD student, Vinnytsia
National Academy of Sciences,
Ukraine

Section 3: Biotechnological aspects for agricultural production, veterinary medicine and food technology

Head of the sectional meeting:

GREGIRCHAK Nataliia Mykolaivna, Candidate of Technical Sciences, Associate Professor, National University of Food Technologies, Ukraine

Secretary of the sectional meeting:

*BARKAR Yevhen Volodymyrovych, Candidate of Agricultural Sciences, Associate Professor, Mykolaiv National Agricultural University, Ukraine
(e-mail - evbarkar@mnau.edu.ua)*

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Conference ID: 522 120 6362

Access code: 578900

Topic:	Speakers:
1. PECULIARITIES OF MICROCROPPING OF PATIO ROSES IN VITRO PATIO B YMOBAX IN VITRO	O. KARATEEVA, Candidate of Agricultural Sciences, Associate Professor, L. POPOVA, Master's student, MNAU, Ukraine
2. ELECTROPHORETIC METHODS FOR THE ANALYSIS OF BIOLOGICAL MACROMOLECULES	E. BARKAR, Candidate of Agricultural Sciences, Associate Professor, MNAU, Ukraine
3. REGULATION OF REPRODUCTIVE FUNCTION OF SOWS BY BIOLOGICALLY ACTIVE PREPARATIONS	S. KOT, Candidate of Biological Sciences, Associate Professor, O. NAIDICH, Candidate of Veterinary Sciences, Associate Professor, Mykolaiv National Academy of Sciences, Ukraine
4. QUALITY OF RESORBABLE CERAMIC MATERIALS USED IN HUMAN BONE REPLACEMENT AND RELATED SAFETY ASPECTS OF BIOTECHNOLOGICAL PRODUCTION	Hans-Joachim FRUEH, Dr.-Ing., Sr Engineering Manager, Anastasiia LOVYNSKA, B.Sc., Manufacturing Engineer, Medtronic Sofamor Danek Deggendorf, Germany
5. FEATURES OF SOYBEAN CULTIVATION USING NITROGEN-FIXING MICROORGANISMS	Jolanta PUCZEL, Dr. inż., Międzynarodowa Akademia Nauk Stosowanych w Łomży, Poland, Bronisław PUCZEL, Dr. inż., Międzynarodowa Akademia Nauk Stosowanych w Łomży, Poland
6. POSSIBILITIES OF USING GMO IN CROP PRODUCTION	Piotr PONICHTERA, Dr. inż., Prorektor ds. studenckich, prof. MANS, Międzynarodowa Akademia Nauk Stosowanych w Łomży, Poland
7. USE OF BIOTECHNOLOGICAL METHODS TO PRESERVE THE GENE POOL OF LOCAL AND ENDANGERED	N. KLOPENKO, Candidate of Agricultural Sciences, Associate Professor, Bila Tserkva NAU, Ukraine

BREEDS

8. BIOTECHNOLOGY OF CATTLE REPRODUCTION IN THE CONDITIONS OF THE DAIRY COMPLEX
 9. DEVELOPMENT OF INNOVATIVE CHITOSAN COATINGS FOR STORAGE OF FOOD AND HATCHING EGGS
 10. THE ROLE OF MODERN BIOTECHNOLOGY IN ACHIEVING THE MAXIMUM GENETIC POTENTIAL OF DAIRY CATTLE
 11. BIOTECHNOLOGICAL APPROACHES TO CONSERVATION OF THE WHITE-HEADED UKRAINIAN CATTLE BREED
 12. INFLUENCE OF SURFACTS OF *RHODOCOCCUS ERYTHROPOLIS* IMV Ac-5017, SYNTHESIZED IN THE PRESENCE OF TRIPTOPHANE AND ERYTRITOL, ON THE DEVASTATION OF BIOPICKS OF PHYTOPATHOGENIC BACTERIA
 13. EFFECT ON COMBINED BIOFILMS OF ESSENTIAL OILS COMPLEX WITH SURFACTANTS SYNTHESIZED BY *ACINETOBACTER CALCOACETICUS* IMV B-7241 IN THE PRESENCE OF BACTERIAL INDUCERS
 14. ON THE PREPARATION OF BOAR EPIDIDYMAL SPERMATOZOA FOR ARTIFICIAL INSEMINATION
 15. STUDY OF GROWTH AND UTILIZATION OF THE MAIN CARBOHYDRATES OF BEER WORT BY
- S. TKACHENKO, Candidate of Biological Sciences, Associate Professor, Bila Tserkva National Academy of Sciences, Ukraine
 - O. CHEKH, Doctor of Philosophy, Assistant, Sumy National University, Ukraine
 - M. BEZUGLYI, Doctor of Agricultural Sciences, Professor, Academician of the National Academy of Sciences of Ukraine,
 - O. SHERBAK, Candidate of Agricultural Sciences, Professor, State Biotechnological University, Ukraine
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 - A. HABLENKO, NTUU "Igor Sikorsky Kyiv Polytechnic Institute", Ukraine, Institute of Food Resources of NAAS,

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- 16. BIOTECHNOLOGY FOR THE PRODUCTION OF AN INNOVATIVE MULTISTRAIN PROBIOTIC WITH SELENIUM NANOPARTICLES: ACTIVE SUBSTANCE PRODUCERS AND FEASIBILITY STUDY**
- 17. RESULTS OF EMBRYO TRANSPLANTATION OF CATTLE IN LLP "ZHANA-KALA"**
- 18. BIOTECHNOLOGY FOR THE PRODUCTION OF A LOW-LACTOSE KOUMISS DRINK FROM WHEY**
- 19. THEORETICAL ANALYSIS OF THE CREATION OF RIBOFLAVIN OVERPRODUCERS BY REGULATING THE ACTIVITY OF ISOCITRATE LYASE IN ASCOMYCETES OF THE GENUS EREMOTHECIUM**
- 20. BIOTECHNOLOGY - THE SCIENCE OF THE FUTURE**
- 21. THE INFLUENCE OF THE PHYSIOLOGICAL STATE OF THE YEAST INDUCER ON THE BIOLOGICAL ACTIVITY OF *RHODOCOCCLUS ERYTHROPOLIS* IMV AC-5017 SURFACTANTS**
- 22. THE USE OF *SACCHAROMYCES BOULARDII* YEAST FOR THE PRODUCTION OF NON-DAIRY**

- Ukraine,
- S. DNYLENKO, Doctor of Technical Sciences, Senior Research Scientist, Institute of Food Resources of NAAS, Ukraine,
- O. DUGAN, Doctor of Biology, Professor, NTUU "Igor Sikorsky Kyiv Polytechnic Institute", Ukraine
- N. HREHIRCHAK, Candidate of Technical Sciences, Associate Professor,
- D. SINYAVSKA, Master's student, National University of Food Technologies, Ukraine
- ATEIKHAN Bolatbek, PhD, Associate Professor, BEXEITOV Toktar, Doctor of Agricultural Sciences, Professor, SEYTEUOV Talgat, PhD, Professor, KAINIDENOV Nursultan, Master of Technical Sciences, «Toraighyrov University», Kazakhstan
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- Anastasiia OKHMAKEVYCH, National University of Food Technologies, Ukraine,
- Tetiana PIROG, National University of Food Technologies, Ukraine, Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Kyiv, Ukraine,
- Liliia KLIUCHKA, National University of Food Technologies, Ukraine
- A. Hirina, PhD student,
- N. HREHIRCHAK, Candidate of Technical Sciences, Associate

FUNCTIONAL BEVERAGES

23. **MODERN BIOTECHNOLOGIES IN CROP PRODUCTION. OXYTREE – THE TREE OF THE FUTURE (СУЧАСНІ БІОТЕХНОЛОГІЇ В РОСЛИННИЦТВІ. ОХУТРЕЕ - ДЕРЕВО МАЙБУТНЬОГО)**
24. **OPTIMIZATION OF THE COMPOSITION OF NUTRIENT MEDIA IN THE PROPAGATION OF GRAPES BY BIOTECHNOLOGICAL METHOD (ОПТИМІЗАЦІЯ СКЛАДУ ПОЖИВНИХ СЕРЕДОВИЩ ПРИ РОЗМНОЖЕННІ ВІНОГРАДУ БІОТЕХНОЛОГІЧНИМ МЕТОДОМ)**
25. **APPLICATION OF CRYOPROTECTANTS FROM THE GROUP OF AMIDES IN THE PROCESS OF HARVESTING BULL SEMEN FOR BREEDING (ЗАСТОСУВАННЯ КРІОПРОТЕКТОРІВ З ГРУПИ АМІДІВ В ПРОЦЕСІ ЗАГОТІВЛІ СПЕРМИ БУГАЇВ ДЛЯ ПЛЕМІННОЇ СПРАВИ)**
26. **AUTOAGGREGATION PROPERTIES OF LACTIC ACID BACTERIA ISOLATED FROM BREAD YOURDERS**

Professor, National University of Food Technologies, Ukraine

Janusz LISOWSKI, Dr. inż., Wyższa Szkoła Agrobiznesu w Łomży, Poland

I. LUTA, Assistant, MNAU, Ukraine

O. SUSHKO, Candidate of Agricultural Sciences,

M. SAVELIEVA, Candidate of Agricultural Sciences,

H. ELETSKYI, Institute of Animal Husbandry, NAAS, Ukraine

KHABLENKO A.D. Graduate student, specialist in the Department of Biotechnology,

S.G. DANYLENKO, Ph.D., Head of the Department of Biotechnology, Institute of Food Resources of the National Academy of Sciences of Ukraine,

DUGAN O.M., Ph.D., Professor of the Department of Industrial Biotechnology and Biopharmaceutics,

D. S. HOLUBCHIK, Master's student of the Department of Industrial Biotechnology and Biopharmaceutics of KPI named after Igor Sikorsky

Section 4: Quality and safety of products and processes of agricultural production, veterinary medicine and food technologies.

Head of the sectional meeting:

IOVENKO Artem Volodymyrovych, Candidate of Veterinary Sciences, Associate Professor, Mykolaiv National Agrarian University, Ukraine

Secretary of the sectional meeting:

*YULEVYCH Olena Ivanivna, Candidate of Technical Sciences, Associate Professor, Mykolaiv National Agrarian University, Ukraine
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Topic:	Speakers:
1. MODERN METHODS OF DETERMINING MICROORGANISMS AND THEIR METABOLITES IN FOOD PRODUCTS	O. YULEVYCH, Candidate of Technical Sciences, Associate Professor, MNAU, Ukraine
2. SAFETY, QUALITY AND REGULATION OF FOOD PRODUCTS AND PROCESSES	V. KUREPIN, PhD in Economics, Associate Professor, MNAU, Ukraine
3. ORGANOLEPTIC EVALUATION OF BREAD WITH THE ADDITION OF A FUNCTIONAL ADDITIVE	O. PETROVA, Candidate of Agricultural Sciences, Associate Professor, MNAU, Ukraine
4. EVALUATION OF THE QUALITY OF GLAZED CHEESES WITH THE ADDITION OF HONEY SYRUP, GREEN TEA EXTRACT, CHAMOMILE	N. SHEVCHUK, Doctor of Philosophy, Associate Professor, MNAU, Ukraine
5. FARMER PERCEPTIONS OF THE CHALLENGES AND OPPORTUNITIES OF INTEGRATED CROP-LIVESTOCK SYSTEMS ON FARMS IN MOLDOVA	FEDOTOVA Liudmila, Doctor of Agricultural Sciences, Associate Professor, Comrat State University, Republic of Moldova
6. CURRENT ACTIVITY OF NATURAL AND ANTHROPOGENIC SOURCES OF LEPTOSPIROSIS IN THE MYKOLAIV OBLAST	I. NAKONECHNYI, Doctor of Biology, Professor, Admiral Makarov National University of Shipbuilding, Ukraine, L. PEROTSKA, Candidate of Veterinary Sciences, Associate Professor, Odesa State Agricultural University, Ukraine
7. FISH CONSUMPTION IN THE DIET OF STUDENTS	O. MYRONENKO, Candidate of Agricultural Sciences, Associate Professor, A. POLISHCHUK, Doctor of Agricultural Sciences, Professor,

8. **INFLUENCE OF TECHNOLOGICAL FACTORS ON THE FORMATION OF MILK PRODUCTIVITY OF HOLSTEIN COWS**
 9. **ASSESSMENT OF THE INFLUENCE OF INTENSIVE TECHNOLOGY COMPONENTS ON PRODUCTIVE, TECHNOLOGICAL, ADAPTIVE AND ETHOLOGICAL PROPERTIES OF HOLSTEIN COWS**
 10. **IMPROVEMENT OF THE TECHNOLOGY OF GROWING YOUNG SPORTS HORSES IN THE CONDITIONS OF THE BRANCH "SOUTHERN BREEDING CENTER" OF THE STATE ENTERPRISE "HORSE BREEDING OF UKRAINE"**
 11. **COW WELFARE WITH A FOCUS ON HEAT STRESS**
 12. **IMPROVEMENT OF THE TECHNOLOGY OF KEEPING THOROUGHBRED AND STALLION BREEDS OF THE KARABAKH BREED**
 13. **MILK PRODUCTIVITY AND BEHAVIOR INDICATORS OF IMPORTED EUROPEAN CATTLE IN HOT CLIMATE CONDITIONS**
 14. **IMPLEMENTATION OF A SYSTEMATIC APPROACH TO THE PRODUCTION OF SAFE PRODUCTS AND ENVIRONMENTAL PROTECTION**
 15. **CHARACTERIZATION OF THE QUALITY COMPOSITION OF COW MILK DEPENDING ON THE BREED**
- M. ILCHENKO, Candidate of Agricultural Sciences, Senior Researcher, Poltava State Agricultural University, Ukraine
- M. GOLOVKO, Postgraduate student,
- T. PIDPALA, Doctor of Agricultural Sciences, Professor, MNAU, Ukraine
- B. GOLOSNYI, Postgraduate student,
- T. PIDPALA, Doctor of Agricultural Sciences, Professor, MNAU, Ukraine
- L. ONYSHCHENKO, Candidate of Agricultural Sciences, Senior Lecturer, MNAU, Ukraine
- O. CHERNENKO, Doctor of Agricultural Sciences, Professor,
- O. CHERNENKO, Candidate of Agricultural Sciences, Associate Professor, Dnipro SAEU, Ukraine,
- V. KOZYR, Doctor of Agricultural Sciences, Professor, Academician of NAAS, Institute of Cereals of NAAS, Ukraine
- Akmal Inoyatovich KHAFIZOV, Navoi State University of Mining and Technologies, Uzbekistan,
- Avaz Askarovich YULDASHEV, Tashkent Zoological Park, Uzbekistan
- ISAMUXAMEDOV Solih Shukurovich,
- YULDASHEV Alo Askarovich, Tashkent State Agrarian University, Uzbekistan
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- M. BASHCHENKO, Doctor of Agricultural Sciences, Academician of the National Academy of Agrarian Sciences of Ukraine,
- O. BOIKO, Candidate of Agricultural Sciences, Senior Researcher,
- O. HAVRYSH, Candidate of Agricultural Sciences, Senior Scientist,
- Y. SOTNICHENKO, Candidate of Agricultural Sciences, Cherkasy Research Station of

- Biological Resources of NAAS, Ukraine
16. **MODERN VACCINES FOR THE PREVENTION OF ANIMAL ANTHRAX** A. IOVENKO, Candidate of Veterinary Sciences, Associate Professor, MNAU, Ukraine
 17. **ADAPTIVE AND PRODUCTIVE QUALITIES OF PIGS OF GENESUS BREEDING COMPANY UNDER INTENSIVE TECHNOLOGY** Y. DANILO, Postgraduate student,
S. LUGOVYI, Doctor of Agricultural Sciences, Professor, MNAU, Ukraine
 18. **PRODUCTIVE QUALITIES OF IMMUNOCASTRATED PIGS UNDER CONDITIONS OF INDUSTRIAL PRODUCTION TECHNOLOGY** D. ANDREEVA, PhD student, MNAU,
M. POVOD, Doctor of Agricultural Sciences, Professor, Sumy NAU, Ukraine
 19. **FEEDING QUALITIES OF PIGLETS USING NON-TRADITIONAL INGREDIENTS AS PART OF COMPLETE COMBINED FEED** Oleksandr SOBOLEV, Doctor of Agriculture, Professor,
Svetlana SOBOLIEVA, PhD in Agriculture, Associate Professor,
Yuri ZASUKHA, Doctor of Agriculture, Professor
Irina TITARENKO, PhD in Agriculture, Associate Professor, Bila Tserkva NAU, Ukraine

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