



Institute  
of Animal  
Biology  
NAAS



UNIWERSYTET  
ROLNICZY  
im. Hugona Kołłątaja w Krakowie



The 1<sup>st</sup> Ukrainian–Polish Scientific Forum

# AGRO BIO PERSPECTIVES

*29–30 September 2021, Lviv, Ukraine*

# PROGRAMME



Lviv city  
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## SPONSORS



*The Forum is supported by Lviv Convention Bureau and co-financed by Programme "Support package for development of conference industry in Lviv".*

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Professor at the Department of Biomedical Sciences, Ontario Veterinary College, University of Guelph, Ontario, Canada

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Deputy Director of the National Research Institute of Animal Production, Balice, Poland

**Igor VUDMASKA**

Deputy Director of the Institute of Animal Biology NAAS, Lviv, Ukraine

# The First Ukrainian-Polish Scientific Forum

## AGROBIOPERSPECTIVES,

29–30 September 2021, Lviv, Ukraine

## TIMETABLE

Event	Venue	Time
<b>Wednesday, September 29</b>		
Registration	Registration desk	8 <sup>00</sup> –10 <sup>00</sup>
Opening ceremony	Assembly hall	10 <sup>00</sup> –11 <sup>00</sup>
Plenary session I	Assembly hall	11 <sup>00</sup> –11 <sup>40</sup>
Coffee break	Conference room 112	11 <sup>40</sup> –12 <sup>00</sup>
Plenary session II	Assembly hall	12 <sup>00</sup> –13 <sup>00</sup>
Lunch		13 <sup>00</sup> –14 <sup>00</sup>
Poster presentation	Conference room 112	14 <sup>00</sup> –14 <sup>30</sup>
Roundtable discussion (upon the special invitation)	Conference room 110	14 <sup>00</sup> –15 <sup>30</sup>
Reports	Assembly hall	14 <sup>30</sup> –15 <sup>30</sup>
Coffee break	Conference room 112	15 <sup>30</sup> –16 <sup>00</sup>
Reports online	Assembly hall	16 <sup>00</sup> –17 <sup>00</sup>
Reports	Assembly hall	17 <sup>00</sup> –18 <sup>00</sup>
Barbecue party		18 <sup>00</sup>
<b>Thursday, September 30</b>		
Plenary session III	Assembly hall	10 <sup>00</sup> –11 <sup>20</sup>
Coffee break, poster session	Conference room 112	11 <sup>20</sup> –11 <sup>40</sup>
Sectional reports	Assembly hall	11 <sup>40</sup> –13 <sup>00</sup>
Final conclusions / Closure	Assembly hall	13 <sup>00</sup> –13 <sup>30</sup>
Lunch		13 <sup>30</sup> –15 <sup>00</sup>
City viewing walking tour		15 <sup>00</sup>

The First Ukrainian-Polish Scientific Forum  
**AGROBIOPERSPECTIVES,**  
*29–30 September 2021, Lviv, Ukraine*  
**PROGRAMME**

**Wednesday, September 29**

Registration	8 <sup>00</sup> –10 <sup>00</sup>
Opening ceremony	10 <sup>00</sup> –11 <sup>00</sup>
<b>Plenary session I</b>	<b>11<sup>00</sup>–11<sup>40</sup></b>
<b><u>Mykola Sharan</u></b> Institute of Animal Biology, Ukraine	11 <sup>00</sup> –11 <sup>20</sup>
<b>Animal reproduction — successes of Ukrainian-Polish scientific cooperation</b>	
<b><u>Miroslaw Karpiński</u></b> University of Life Sciences in Lublin, Poland	11 <sup>20</sup> –11 <sup>40</sup>
<b>Impact of COVID-19 pandemic on the welfare and behavior of companion animals: dogs and cats</b>	
<b>Coffee break</b>	<b>11<sup>40</sup>–12<sup>00</sup></b>
<b>Plenary session II</b>	<b>12<sup>00</sup>–13<sup>00</sup></b>
<b><u>Yaroslav Blume</u></b> Institute of Food Biotechnology and Genomics NAS, Ukraine	12 <sup>00</sup> –12 <sup>20</sup>
<b>Novel biotechnologies in plant breeding: genome engineering</b>	
<b><u>Sylwestr Świątkiewicz</u></b> National Research Institute of Animal Production in Kraków, Poland	12 <sup>20</sup> –12 <sup>40</sup>
<b>Safety of genetically modified feed materials in animal nutrition — results of studies of National Research Institute of Animal Production in Kraków</b>	
<b><u>Igor Kotsiumbas</u></b> State Scientific-Research Control Institute of Veterinary Preparations and Fodder Additives, Ukraine	12 <sup>40</sup> –13 <sup>00</sup>
<b>Market of veterinary medicines and feed additives in Ukraine</b>	
<b>Lunch</b>	<b>13<sup>00</sup>–14<sup>00</sup></b>
<b>Poster presentation</b>	<b>14<sup>00</sup>–14<sup>30</sup></b>
<b>Roundtable discussion</b>	<b>14<sup>00</sup>–15<sup>30</sup></b>

<b>Reports</b>	<b>14<sup>30</sup>–15<sup>30</sup></b>
<p><u><i>Y. Lesyk</i></u> Institute of Animal Biology NAAS, Ukraine</p> <p>Influence of sulfur compounds drinking on blood parameters and resistance of rabbits</p>	14 <sup>30</sup> –14 <sup>40</sup>
<p><u><i>J. Kapustka</i></u> University of Life Sciences in Lublin, Poland</p> <p>Assessment of flight distance in alpacas during response to familiar and unfamiliar humans</p>	14 <sup>40</sup> –14 <sup>50</sup>
<p><u><i>I. Saranchuk</i></u> Institute of Agriculture of Carpathian Region NAAS, Bukovynian state agricultural experimental station, Ukraine</p> <p>Influence of various amounts of flax oil on the fatty acid composition of total lipids of thorax tissues and productivity of bees</p>	14 <sup>50</sup> –15 <sup>00</sup>
<p><u><i>J. Wojtaś</i></u> University of Life Sciences in Lublin, Poland</p> <p>Hormonal interactions between humans and dogs in Search and Rescue (SAR) teams</p>	15 <sup>00</sup> –15 <sup>10</sup>
<p><u><i>Yu. Martyniv</i></u> Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine</p> <p>Characteristics of different schemes for the treatment of microsporia</p>	15 <sup>10</sup> –15 <sup>20</sup>
<p><u><i>K. Fryc</i></u> University of Agriculture in Kraków, Poland</p> <p>Effects of ewe age on oocyte viability and timing of early embryo cleavage</p>	15 <sup>20</sup> –15 <sup>30</sup>
<b>Coffee break</b>	<b>15<sup>30</sup>–16<sup>00</sup></b>
<b>Reports online</b>	<b>16<sup>00</sup>–17<sup>00</sup></b>
<p><u><i>P. Lyutskanov</i></u> Scientific and Practical Institute of Biotechnologies in Zootechny and Veterinary Medicine, Republic of Moldova</p> <p>Morphoproductive indicators of the Assaf sheep of local reproduction</p>	16 <sup>00</sup> –16 <sup>10</sup>
<p><u><i>A. Pîrlog</i></u> State Agrarian University of Moldova, Republic of Moldova</p> <p>The influence of biologically active preparations on the reproductive qualities of sows</p>	16 <sup>10</sup> –16 <sup>20</sup>
<p><u><i>S. Kovtun</i></u> Institute of Animal Breeding and Genetics named after M. V. Zubets NAAS, Ukraine</p> <p>Genesis of conceptual principles of preservation and rational use of farm animals</p>	16 <sup>20</sup> –16 <sup>30</sup>

<u><i>M. Barvenashvili</i></u> Georgian Academy of Agricultural Sciences, Tbilisi, Georgia	16 <sup>30</sup> –16 <sup>40</sup>
Young ostrich hematological indices	
<u><i>K. Kras</i></u> University of Life Sciences in Lublin, Poland	16 <sup>40</sup> –16 <sup>50</sup>
The effect of prenatal exposure to fumonisins on the structure of the enteric nervous system of the rat	
<u><i>Z. Flis</i></u> University of Agriculture in Kraków, Poland	16 <sup>50</sup> –17 <sup>00</sup>
Changes in the chemical composition of milk in sheep grazed in mountain pastures in Pieniny	
<b>Reports</b>	<b>17<sup>00</sup>–18<sup>00</sup></b>
<u><i>M. Świątkiewicz</i></u> National Research Institute of Animal Production in Kraków, Poland	17 <sup>00</sup> –17 <sup>10</sup>
Research work of the Institute of Animal Production in the field of pig nutrition — feed supplements enhancing pig health and productivity	
<u><i>B. Ahmadi</i></u> University of Guelph, Ontario Veterinary College, Canada	17 <sup>10</sup> –17 <sup>20</sup>
Associations between ultrasonographic attributes and chemical constituents of skeletal muscles: implications for meat industry and clinical practice	
<u><i>V. Danchuk</i></u> National University of Life and Environmental Sciences of Ukraine, Ukrainian Laboratory of Quality and Safety of Agricultural Products, Ukraine	17 <sup>20</sup> –17 <sup>30</sup>
Methodology of risk assessment of possible contamination by mycotoxins in milk and dairy products	
<u><i>W. Witariski</i></u> National Research Institute of Animal Production, Poland	17 <sup>30</sup> –17 <sup>40</sup>
Artificial meat production — challenges and perspectives	
<u><i>S. Varvarenko</i></u> Lviv Polytechnic National University, Ukraine	17 <sup>40</sup> –17 <sup>50</sup>
Development of microelement supplements based on N-substituted glutamic acid for animals feed correction	
<u><i>M. Flis</i></u> University of Life Sciences in Lublin, Poland	17 <sup>50</sup> –18 <sup>00</sup>
Rabies is a local or global problem?	
<b>Barbecue party</b>	<b>18<sup>00</sup></b>

## Thursday, September 30

### Plenary session III

10<sup>00</sup>–11<sup>20</sup>

#### Paweł Bartlewski

University of Guelph, Ontario Veterinary College, Canada

Major intrinsic determinants and predictors  
of suprovulatory responses in small ruminants

10<sup>00</sup>–10<sup>20</sup>

#### Zygmunt Kowalski

University of Agriculture in Kraków, Poland

Hyperketolactia in dairy cows in Poland —  
prevalence and consequences

10<sup>20</sup>–10<sup>40</sup>

#### Alla Yemets

Institute of Food Biotechnology and Genomics NAS, Ukraine

Biotechnological approaches for production  
of recombinant lactoferrin in animals and plants

10<sup>40</sup>–11<sup>00</sup>

#### Tomasz Schwarz

University of Agriculture in Kraków, Poland

Natural versus pharmacological methods  
of controlled swine reproduction

11<sup>00</sup>–11<sup>20</sup>

### Coffee break

11<sup>20</sup>–11<sup>40</sup>

### Reports

11<sup>40</sup>–13<sup>00</sup>

#### M. Małopolska

National Research Institute of Animal Production, Poland

Influence of pig immunocastration on fattening parameters

11<sup>40</sup>–11<sup>50</sup>

#### R. Kucheryavenko

BIOPLACE LLC, Kharkiv, Ukraine

Serologic studying bovine coronavirus infection in Ukraine

11<sup>50</sup>–12<sup>00</sup>

#### P. Czyżowski

University of Life Science in Lublin, Poland

A comparison of the selected population parameters  
of pheasants *Phasianu scolchicus* in agricultural and urban areas

12<sup>00</sup>–12<sup>10</sup>

#### K. Smolianinov

Institute of Animal biology NAAS, Ukraine

Fatty acid composition in carp liver and skeletal muscles  
after vitamin and mineral supplementation

12<sup>10</sup>–12<sup>20</sup>

#### D. Zieliński

University of Life Sciences in Lublin, Poland

Environmental enrichment for *Eublepharis macularius*  
in a different captive environment (terrarium vs. rack system)

12<sup>20</sup>–12<sup>30</sup>



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<u><i>T. Suprovych</i></u> State Agrarian and Engineering University in Podillia, Ukraine	12 <sup>30</sup> –12 <sup>40</sup>
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<u><i>V. Syrvatka</i></u> Ivan Franko National University of Lviv, Institute of Animal Biology NAAS, Ukraine	12 <sup>40</sup> –12 <sup>50</sup>
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<u><i>I. Vudmaska</i></u> Institute of Animal Biology NAAS, Ukraine	12 <sup>50</sup> –13 <sup>00</sup>
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<b>Final conclusions / Closure</b>	<b>13<sup>00</sup>–13<sup>30</sup></b>
<b>Lunch</b>	<b>13<sup>30</sup>–15<sup>00</sup></b>
<b>City viewing walking tour</b>	<b>15<sup>00</sup></b>

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## Poster session

L. Akymenko, L. Lazareva, H. Postoienko

National Scientific Center "Institute of Beekeeping named after P. I. Prokopovych", Ukraine

Development of a standard operating procedure for determining the quality of honey and beekeeping products according to microbiological indicators

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A. Arczewska-Włosek, S. Świątkiewicz

National Research Institute of Animal Production in Kraków, Poland

Nutritional methods in the prevention of coccidiosis in broiler chickens — the results of the studies conducted at the National Research Institute of Animal Production in Kraków

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V. Balkovskyi, S. Pavkovych, N. Ohorodnyk

Lviv National Agrarian University, Ukraine

Influence of feeding with rapeseeds on fatty acid composition of cows' milk fat

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G. Bila<sup>1,2</sup>, M. Lootsyk<sup>2</sup>, A. Mokhir<sup>3</sup>, O. Vishchur<sup>1</sup>, R. Bilyy<sup>2</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Danylo Halytsky Lviv National Medical University, Ukraine

<sup>3</sup>Friedrich Alexander University Erlangen-Nurnberg (FAU), Germany

Targeting granulocytic tumor cells with cholic acid prodrug conjugates

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Yu. Bodnar, N. Kuzmina

Institute of Animal Biology NAAS, Ukraine

Catalase isozymes content in granulose layer cells from follicles ovaries of cows

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A. Bogdaniuk<sup>1,2</sup>, V. Garkavii<sup>2,3</sup>, M. Petrushko<sup>1</sup>

<sup>1</sup>Institute for Problems of Cryobiology and Cryomedicine NAS of Ukraine, Ukraine

<sup>2</sup>Institute of Contemporary Veterinary Technologies LLC, Ukraine

<sup>3</sup>AE "Tetiana 2011", Ukraine

*In vitro* fertilization of Saanen goat oocytes in non-breeding season with epididymal spermatozoa

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O. Boiko<sup>1</sup>, B. Kurtyak<sup>2</sup>, V. Shevchuk<sup>1</sup>, P. Boiko<sup>1</sup>, M. Romanovych<sup>2</sup>

<sup>1</sup>Lesya Ukrainka Volyn National University, Ukraine

<sup>2</sup>Stepan Gzhitskyi National University of Veterinary Medicine and Biotechnologies, Ukraine

Features of infectious and epizootic processes of mycobacteriosis in cattle

---

R. Branets<sup>1</sup>, V. Oleksa<sup>2</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Lviv Polytechnic National University, Ukraine

Hematological indicators of the pig's body after feeding metal salts in the composition of polymer transporter

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N. Broda<sup>1</sup>, O. Vishchur<sup>1</sup>, I. Matiukha<sup>2</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Enzym Company, Ukraine

The state of the natural and adaptive immunity of pregnant cows and their calves under the conditions of technogenic contamination and the action of "Pregnavitan"

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O. Buchko<sup>1</sup>, V. Havryliak<sup>2</sup>

<sup>1</sup>State Scientific-Research Control Institute of Veterinary Medicinal Products and Feed Additives, Ukraine

<sup>2</sup>Lviv Polytechnic National University, Ukraine

The effect of plant extract on the hematological and biochemical parameters of the blood in piglets after weaning

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T. Buslyk, V. Rosalovsky, Y. Salyha

Institute of Animal Biology NAAS, Ukraine

Application of the polymerase chain reaction method for animal feeds safety analysis

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O. Danchenko<sup>1</sup>, Y. Nikolaeva<sup>2</sup>, M. Danchenko<sup>1</sup>, A. Fedorko<sup>2</sup>, O. Dzyuban<sup>2</sup>

<sup>1</sup>Dmytro Motornyi Tavriya State Agrotechnological University, Ukraine

<sup>2</sup>Bogdan Khmelnytsky Melitopol State Pedagogical University, Ukraine

Effect of *Avena sativa* extract on antioxidant activity of liver in geese during physiological stress

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P. Domaradzki, Z. Litwińczuk, M. Kowalczyk, P. Żółkiewski, P. Stanek,  
A. Kaliniak-Dziura, E. Kowalczuk-Vasilev

University of Life Sciences in Lublin, Poland

Slaughter value and meat quality of young bulls of three genotypes fed a semi-intensive system involving flax extrudate

---

V. Dovhanyuk, Y. Salyha

Institute of Animal Biology NAAS, Ukraine

Investigation into the biological effects of chlorpyrifos chronic intoxication using zebrafish embryos

---

A. Dydiv, P. Khirivskiyi, T. Datsko, Y. Korinec, M. Ivankiv

Lviv National Agrarian University, Ukraine

Ecological problems of modern poultry farming

---

Ye. Dzen, I. Luchka, Y. Salyha

Institute of Animal Biology NAAS, Ukraine

Zinc content in the hay of the cattle ration in farms of different biogeochemical provinces of Ukraine

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V. Dzitsiuk, Kh. Typylo

Institute of Animal Breeding and Genetics named after M. V. Zubets NAAS, Ukraine

The role of chromosomal variability in the formation of the genetic structure of farm animals

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O. Fedorovych, V. Stybel

Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine

The effect of monogens on the body of carp fish

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V. Fedorovych<sup>1</sup>, N. Mazur<sup>1</sup>, Ye. Fedorovych<sup>1</sup>, S. Fyl<sup>2</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Dairy Global Experts, Ukraine

Influence of genetic factors on productive longevity of dairy cattle

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Ye. Fedorovych<sup>1</sup>, V. Fedorovych<sup>1</sup>, N. Mazur<sup>1</sup>, T. Orikhivskiy<sup>2</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine

Economically useful features of cows of different production types of Simmental breed

---

Ye. Fedorovych<sup>1</sup>, A. Muzhenko<sup>2</sup>, N. Slusar<sup>3</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Institute of Animal Breeding and Genetics named after M. V. Zubets NAAS, Ukraine

<sup>3</sup>Polissya National University, Ukraine

Peculiarities of the molting process in crawfish of different species

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R. Fedoruk<sup>1</sup>, M. Tsap<sup>1</sup>, U. Tesarivska<sup>2</sup>, I. Kovalchuk<sup>3</sup>, O. Koleschuk<sup>3</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>State Scientific-Research Control Institute of Veterinary Medicinal Products and Feed Additives, Ukraine

<sup>3</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine

Biological effects of different doses of citrate I, Se, S in broiler chickens in the presence and absence of coccidiostats in feed

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P. Fyalkovsky<sup>1</sup>, D. Mudrak<sup>1</sup>, I. Solovodzinska<sup>2</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Lviv National Agrarian University, Ukraine

The state of cellular and humoral immune response in chicken broilers under the influence of the synbiotic preparation in the complex with aqueous solution of iodine and selenium

---

O. Galatiuk<sup>1</sup>, A. Lakhman<sup>1</sup>, T. Romanishina<sup>1</sup>, O. Zastulka<sup>1</sup>, B. Kurtyak<sup>2</sup>, I. Kovalchuk<sup>2</sup>, T. Pundyak<sup>2</sup>

<sup>1</sup>Polissya National University, Ukraine

<sup>2</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine

Bioperspectives in the treatment and prevention of enterobacteriosis of bees in organic production of beekeeping products

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I. Gevkan<sup>1</sup>, V. Syrvatka<sup>1,2</sup>, O. Shtapenko<sup>1</sup>

<sup>1</sup>Institute of Animal Biology NAAS, Ukraine

<sup>2</sup>Ivan Franko National University of Lviv, Ukraine

Complex hormonal-vitamin nanosomal preparations of argentum, zinc and copper nanoparticles for effective treatment of cows' endometritis

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A. Giorgadze

Georgian Academy of Agricultural Sciences, Georgia

Innovative technology in quail egg incubation

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I. Goncharenko, O. Hrek

National University of Life and Environmental Sciences of Ukraine, Ukraine

Therapeutic properties of koumis and prospects of its production in Ukraine

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L. Hiżewska, M. Matysek, M. Arciszewski

University of Life Sciences in Lublin, Poland

Changes in rat hippocampus during diabetes

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Y. Ishchenko, V. Biletska, L. Ishchenko, N. Boiko,

V. Solomon, V. Ishchenko

National University of Life and Environmental Sciences of Ukraine, Ukraine

Application of *Atoxvet* phytocomplex to reduce the negative effects of mycotoxins and stimulation of laying chicken productivity

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M. Ivankiv, T. Datsko, N. Kachmar, A. Dydiv

Lviv National Agrarian University, Ukraine

Environmental impact assessment from livestock production

---

P. Khirivskiy, V. Snitynskiy, Y. Korinets

Lviv National Agrarian University, Ukraine

Regularities of accumulation of nitrate-nitritic nitrogen in livestock products

---

A. Kitaeva, O. Voronyuk

Odesa State Agrarian University, Ukraine

Physicochemical parameters of milk from goats of different breeds

---

H. Klymets, R. Iskra, O. Zolototska

Institute of Animal Biology NAAS, Ukraine

The effect of vanadium citrate on platelet characteristics in male and female rats

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I. Kolomiets, I. Kovalchuk, O. Slepokura, P. Golovach, V. Kolotnytskiy,

M. Zmiya, O. Kamratska

Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine

Physiological mechanisms of the regulation of erythron and protein in blood of piglets at the development of adaptative syndrome

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S. Komplikevych, O. Maslovska, S. Hnatush

Ivan Franko National University of Lviv, Ukraine

Metal-resistant bacteria *Ochrobactrum rhizosphaerae* K 3-1, isolated from the lake of infiltrates of Lviv solid waste landfill

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S. Koretchuk, O. Stefanyshyn, Ya. Sirko

Institute of Animal Biology NAAS, Ukraine

The impact of feed additives and synbiotics on the activity of hydrolytic enzymes in quails

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Y. Korinets, V. Snitynskiy, P. Khirivskiy, O. Zelisko

Lviv National Agrarian University, Ukraine

Effect of reduction of easily digestible protein in the diet of cows on intensity of microbial protein synthesis in the rumen and formation of the fund of milk protein predecessors

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S. Kornyat, M. Sharan, D. Ostapiv, A. Korbeckij, I. Jaremchuk, O. Andrushko

Institute of Animal Biology NAAS, Ukraine

Quality of deconserved bull sperm for the action of nanocitrates Zn, Cu, and Mn in the diluents

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**B. Kotyk, N. Liubas, R. Iskra**

Institute of Animal Biology NAAS, Ukraine

Effect of ethylthiosulfanylate on hematological indicators of rats under the toxic effect of Chromium(VI)

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**I. Kovalchuk<sup>1</sup>, R. Androshulik<sup>2</sup>, M. Tsap<sup>2</sup>**<sup>1</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine<sup>2</sup>Institute of Animal Biology NAAS, Ukraine

Content of total protein and its fractions in hemolymph of bees depending on the level of citrates Mg introduction to sugar syrup

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**I. Kovalchuk<sup>1</sup>, I. Kikish<sup>2</sup>**<sup>1</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine<sup>2</sup>Institute of Animal Biology NAAS, Ukraine

Minerals composition and quality indexes of production of beekeeping after feeding Ge and Co citrate

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**I. Kovalchuk<sup>1</sup>, M. Tsap<sup>2</sup>, O. Koleschuk<sup>1</sup>, B. Kurtyak<sup>1</sup>, G. Sobko<sup>1</sup>, L. Romanovych<sup>1</sup>**<sup>1</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine<sup>2</sup>Institute of Animal Biology NAAS, Ukraine

The influence of introduction of a mixture of citrates of mineral elements to growth, development and maintenance of broiler chickens

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**M. Kuziv<sup>1</sup>, N. Kuziv<sup>1</sup>, V. Fedorovych<sup>2</sup>**<sup>1</sup>Institute of Animal Biology NAAS, Ukraine<sup>2</sup>Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Ukraine

Development of dairy productivity of cows of Ukrainian Black-and-White dairy breed depending on different factors

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Hydrolytic enzyme activity in quails upon introduction of enzyme mixtures and various sulfur forms into their diet

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The intestinal barrier in health and disease in livestock animals

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Regularities of correlation variability of non-specific resistance and growth intensity of calves

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Influence of morphological indicators of testicles in rams of different breeds on the quantity and quality of sperm production

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Stimulating effect of pheromone at different seasons  
on sexual function of sows

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Bioenergy potential and technological features  
of animal waste utilization

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Phylogenetic analysis of *Streptomyces* genus isolates  
from the spoil heap of central enrichment factory “Chervonohradska”

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The use of inositol for poultry

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Human hair keratin-based film for biomedical applications

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Intoxication of rumen microbiota with hexavalent chromium  
and its correction by Selenium and carotene *in vitro*

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Antiseptic hydrogel bandages for use in veterinary medicine

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Influence of immunotropic liposomal preparation  
on forming immune response in weaned piglets

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The expression of heat shock proteins in fish as a sensitive biomarker  
of pollution by heavy metals

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Environmental risks and prospects in the field of animal waste disposal

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Influence of changes in the diet structure  
on the fatty acid of cows' milk lipids

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Selection characteristics of horses of Novooleksandrivska draft breed

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Selection features of Carpathian breed bees

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The content of phospholipids and their fractional composition  
in plasma of healthy and ketotic cows

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Fatty acids content control in food products by gas chromatography

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Frequency of white stripping myopathy and physicochemical characteristics  
of pectoral muscles of fast and slow growing chickens

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The role of synbiotic drugs, iodine and selenium  
in the regulation of immune function in calves

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Effect of *EnzActive MIX* feeding on the piglet hematological parameters

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Influence of NSAIDs on the microbiocenosis  
of the oral cavity in animals

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Prophylactic of the calves dyspepsias by the "Enbiotic"  
in different epizootic conditions of the farms

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Problems of poultry products pollution by heavy metals

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Changes in biochemical indices in rats intoxicated with carbon tetrachloride and treated with L-glutamic acid

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The effectiveness of an improved method of thawing sexed spermatozoa

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Productive traits of laying hens of different crosses

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Effect of the enzyme preparation "Natuzyum" and sulfur citrate on the lipid metabolism of quails

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Impact of exogenous enzymes and sulfur citrate on intestinal microbiocenosis of broiler chicken

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**O. Sushko<sup>1</sup>, R. Iskra<sup>2</sup>**<sup>1</sup>Andrei Krupynskyi Lviv Medical Academy, Ukraine<sup>2</sup>Institute of Animal Biology NAAS, UkraineEffect of vanadium and chromium citrates on lipid composition in blood plasma of rats with experimental diabetes

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Population-genetic monitoring in the cattle biodiversity conservation system *in situ*

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Vitamin and mineral nutrition of ducks

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Population and genetic analysis of the horse gene pool of Ukraine

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Roundup exposure affects longevity, body weight and feeding rate in *Drosophila*

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Selection factors of improving Ayrshire cattle breed productivity

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Post thawing quality of bull spermatozoa in diluent with additives of microelements linked with polymer-transporter

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Spectrophotometric determination of ceftiofur hydrochloride in suspensions for veterinary medicine

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**Y. Zhylishchich<sup>1</sup>, B. Krektun<sup>1</sup>, H. Antonyak<sup>2</sup>, V. Snitynskyi<sup>1</sup>**<sup>1</sup>Lviv National Agrarian University, Ukraine<sup>2</sup>Ivan Franko National University, UkraineMetabolic adaptations of blood erythroid cell populations and hematopoietic organs in condition of cadmium intoxication

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