



V International Scientific and Practical Conference

PROBLEMS AND ACHIEVEMENTS OF MODERN BIOTECHNOLOGY

CONFERENCE PROGRAM

Kharkiv, Ukraine, 28 March 2025

CONFERENCE ORGANIZING COMMITTEE

Alla KOTVITSKA	Doctor of Pharmaceutical Sciences, Professor, Honored Worker of Science and Technology of Ukraine, Acting Rector of the National University of Pharmacy (Chairman)
Inna VLADYMYROVA	Doctor of Pharmaceutical Sciences, Professor, Vice-Rector for Scientific and Pedagogical Work of the National University of Pharmacy (co-chair)
Natalia KHOKHLENKOVA	Doctor of Pharmaceutical Sciences, Professor, Head of the Department of Biotechnology, National University of Pharmacy (co-chair)
Olga FILIPTSOVA	Doctor of Biological Sciences, Professor, Professor of the Department of Biotechnology National University of Pharmacy
Natalia DVINSKYKH	Candidate of Pharmaceutical Sciences, Associate Professor of the Department of Biotechnology, National University of Pharmacy
Olha KALIUZHNAIA	Candidate of Pharmaceutical Sciences, Associate Professor of the Department of Biotechnology, National University of Pharmacy
Alina SOLOVIOVA	PhD, assistant of the Department of Biotechnology, National University of Pharmacy

REGULATIONS OF THE CONFERENCE

(GMT+2 time)

8.45-9.00	Connecting participants
9.00-9.15	Opening of the conference, greetings from the organizers and guests
9.15-13.30	Plenary meeting
13.30-14.10	Section of young scientists
14.10-14.30	Summarizing the results of the conference

OPENING OF THE V INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE “PROBLEMS AND ACHIEVEMENTS OF MODERN BIOTECHNOLOGY”

9.00-9.15

Link to the Zoom conference:

[https://us02web.zoom.us/j/4275578662?
pwd=UTdxa2QvUkVVR5szNjNCNWRsSE5xUT09&omn=99552192545](https://us02web.zoom.us/j/4275578662?pwd=UTdxa2QvUkVVR5szNjNCNWRsSE5xUT09&omn=99552192545)

ID: 427 557 8662

Access code: 8fz2s4

Working languages of the conference: Ukrainian, English.

WELCOME SPEECH

Inna VLADIMIROVA	Doctor of Pharmaceutical Sciences, Professor, Vice-Rector of Scientific and Pedagogical Work of the National University of Pharmacy
Natalia KHOKHLENKOVA	Doctor of Pharmaceutical Sciences, Professor, Head of the Department of Biotechnology, National University of Pharmacy

PLENARY MEETING

9.15-13.00

9.15-9.30 Biotechnological aspects of the development of microbial fibrinogenases	Olena GUDZENKO D.K. Zabolotny Institute of Microbiology and Virology of the National Academy of Sciences of Ukraine, Kyiv, Ukraine
9.30-9.45 Optimized technology for long-term storage of the gene pool of farm animals in accordance with FAO requirements	Svitlana KOVTUN M.V. Zubets Institute of Animal Breeding and Genetics of the National Academy of Agrarian Science, Chubynske village, Ukraine
9.45-10.00 Application of cytogenetic research method in the diagnosis of menstrual disorders in adolescent girls	Natalia BAGATSKA Institute of Health Care for Children and Adolescents of the National Academy of Medical Sciences of Ukraine, Kharkiv, Ukraine
10.00-10.15 Parabiotics and postbiotics – the new horizon in food preservation	Michalina JANKOWSKA, Ph.D. student Interdisciplinary Doctoral School of Lodz University of Technology Anna OTLEWSKA, Ph.D. Katarzyna RAJKOWSKA, Dr. habil Institute of Fermentation Technology and Microbiology – Faculty of Biotechnology and Food Sciences, Lodz University of Technology, Lodz, Poland
10.15-10.30 Ectoine and hydroxyectoine – properties and potential for use in clean-label products	Aleksandra RACZYK, Ph.D. student Interdisciplinary Doctoral School of Lodz University of Technology Anna OTLEWSKA, Ph.D. Katarzyna RAJKOWSKA, Dr. habil Institute of Fermentation Technology and Microbiology – Faculty of Biotechnology and Food Sciences, Lodz University of Technology, Lodz, Poland
10.30-10.45 Structure-activity relationship of α -arbutin, β -arbutin and hydroquinone	Olexandr MASLOV Mykola KOMISARENKO Sergiy KOLISNYK National University of Pharmacy, Kharkiv, Ukraine Svitlana PONOMARENKO Tatiana OSOLODCHENKO Mechnikov Institute of Microbiology and Immunology of the National Academy of Medical Sciences of Ukraine, Kharkiv, Ukraine
10.45-11.00 Biotechnological strategies for isolation of Wharton's Jelly mesenchymal stromal/stem cells	Ruslana OBUSHKO Natalia TRUFANOVA Institute of Problems of Cryobiology and Cryomedicine of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine Oleksandr PETRENKO
11.00-11.15 Requirements of the SFC/Ph.Eur. to raw materials of biological origin for the production of cell-based medicines and gene therapy	Nelya KISHYNETS Ukrainian Scientific Pharmacopoeial Center for the Quality of Medicines, Kharkiv, Ukraine
11.15-11.30 Dressing of wheat grain - evaluation of the effectiveness of preparations based on gemini surfactants	Tomasz SZCZYGIEL, PhD Anna OTLEWSKA, PhD Anna KOZIRÓG, PhD., D.Sc. Institute of Fermentation Technology and Microbiology – Faculty of Biotechnology and Food Sciences, Lodz University of Technology, Lodz, Poland

11.30-11.45 Anti-inflammatory and antiamyloid activity of liposomal aerosol of curcumin and microRNA mixture and its effectiveness in relation to dose and duration of action and aftereffect <i>in vivo</i>	Sergiy SHULGA Hanna ANDRIYASH Olena TIGUNOVA Yaroslav BLUM State Institution “Institute of Food Biotechnology and Genomics of the National Academy of Sciences of Ukraine”, Kyiv, Ukraine Victoria SKOLIK P.V. Voloshin Institute of Neurology, Psychiatry and Narcology of the National Academy of Medical Sciences of Ukraine, Kharkiv, Ukraine Kateryna KOT Yuri KOT V. N. Karazin Kharkiv National University
11.45-12.00 Practical experience in the design of immunobiological drugs production. The role of international communities on the example of ISPE in the development of the biotechnology industry	Viktor ZAICHENKO Svitlana GAVRILENKO ENGENIUM Group, Brovary, Ukraine
12.00-12.15 Changes in the biochemical composition of leaves in kale hybrids expressing heterologous colicin gene	Sergey LITVINOV, Ph.D (Biological) Researcher Andriy POTROKHOV, Ph.D (Biological) Junior researcher Maxim VASYLENKO, Junior researcher Volodymyr RUDAS, Ph.D (Biological), Senior Researcher Olga OVCHARENKO, Ph.D (Biological), Researcher Institute of Cell Biology and Genetic Engineering, National Academy of Sciences of Ukraine, Kyiv, Ukraine
12.15-12.30 Deriving and culturing neural stem/progenitor cells from neonatal rats	Olha MAIOROVA, PhD Olga OCHENASHKO, PhD, Senior Researcher Svitlana VSEVOLODSKA, Junior researcher Oleksandr SUKACH, D.Sc., prof., Leading research fellow Department of Cryobiochemistry, Institute for Problems of Cryobiology and Cryomedicine, National Academy of Sciences of Ukraine, Kharkiv, Ukraine.

12.30-12.45 Recombinant blood products: advances in genetic engineering and its clinical applications	Malgorzata GRADZIUK, post-graduated student Halina TKACZENKO, Ph.D., D.Sc., Prof., Natalia KURHALUK, Ph.D., D.Sc., Prof., Institute of Biology, Pomeranian University in Slupsk, Slupsk, Poland
12.45-13.00 Some aspects of teaching Pharmaceutical Biotechnology at Ivano-Frankivsk National Medical University	Anna SINICHENKO Ivano-Frankivsk National Medical University, Ivano-Frankivsk, Ukraine
13.00-13.15 Domestic market of shilajit-based products	Olga KHVOROST Kateryna SKREBTSOVA National University of Pharmacy, Kharkiv, Ukraine Anna RUDNIK Zaporizhzhia University of Medicine and Pharmacy, Zaporizhzhia, Ukraine
13.15-13.30 Approaches to the development of the composition of herbal preparations	Tetiana OPROSHANSKA Olga KHVOROST Kateryna SKREBTSOVA National University of Pharmacy, Kharkiv, Ukraine

SECTION OF YOUNG SCIENTISTS

13.30-14.10

13.30-13.40 Determination of the antioxidant properties of extracts obtained from avocado pits	Arseniy KALEYNIKOV Olena YAREMKEYVICH Lviv Polytechnic National University, Lviv, Ukraine
13.40-13.50 Environmental biotechnology and agrodrone	Diana ZHALDAK Natalia KRAVCHENKO Sumy National Agrarian University, Sumy, Ukraine Mykhailo KLYUCHEVYCH Inna MOZHARIVSKA Department of Environmental Health and Food Quality, State University of Zhytomyr Polytechnic, Zhytomyr, Ukraine
13.50-14.00 Recovery of selenite ions into selenium nanoparticles by using <i>Saccharomyces cerevisiae</i> M437	Maria PROTSENKO Оксана СКОПОЦЬКА Department of Biotechnology and Microbiology, National University of Food Technologies, Kyiv, Ukraine
14.00-14.10 Temperature dependence of silver nanoparticles biosynthesis and prospects for their use as antimicrobial compounds	Valeria MARCHENKO Yevhenia KOROBITSYNA Oksana SKROTSKA Department of Biotechnology and Microbiology, National University of Food Technologies, Kyiv, Ukraine

SUMMARIZING THE RESULTS OF THE CONFERENCE

14.10-14.30

The certificates of the conference participants and the conference proceedings will be available for download on the website of the Department of Biotechnology of the National University of Science and Technology [at the link](#)