

IV INTERNATIONAL SCIENTIFIC CONFERENCE

MICROBIOLOGY AND IMMUNOLOGY – THE DEVELOPMENT OUTLOOK IN THE 21ST CENTURY

September 22-23, 2022

Kyiv

Ukraine

PROGRAM

ORGANIZERS:

*Ministry of Education and Science of Ukraine
Taras Shevchenko National University of Kyiv
ESC «Institute of Biology and Medicine»
Department of Microbiology and Immunology
Vynohrads'kyj society of microbiologists of Ukraine
Ukrainian Society of Specialists in Immunology, Allergology and Immunorehabilitation*

ORGANIZING COMMITTEE

Liudmyla OSTAPCHENKO, Chairman of the Organizing Committee,

Larysa SKIVKA, co-Chairman of the Organizing Committee

Oleksandr KOROTKYI, co-Chairman of the Organizing Committee

MARIIA RUDYK, Secretary of the Conference

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Larysa STEPURA

Yuliia FAIDIUK

Yuliia YUMYNA

Nataliia YAVORSKA

Pavlina ZELENA

Nataliia HRYTSEVA

Zhanna OLIINYK

Anastasiia NEFODOVA

September 22, Thursday

<u>09:30 – 10:00 – OPENING CEREMONY</u>	
09:30 – 09:35	Larysa SKIVKA , co-Chairman of the Organizing Committee, ScD, Professor
09:35 – 09:40	Ganna TOLSTANOVA , Vice-rector for Science at Taras Shevchenko National University of Kyiv, ScD, Professor
09:40 – 09:45	Igor KIDASHEV , President of the Ukrainian Society of Immunology, Allergy and Immunorehabilitation, Vice-Rector for Research & Development at Ukrainian Medical Dental Academy, MD, Professor, EFIS member
09:45 – 09:50	Valentyn PIDGORS'KYJ , President of Vynohrads'kyj Society of Microbiologists of Ukraine, Academician of NAS of Ukraine, ScD, Professor
09:50 – 09:55	Mykola SPIVAK , Director of Danylo Zabolotny Institute of Microbiology and Virology NAS of Ukraine, Academician of NAS of Ukraine, ScD, Professor
09:55 – 10:00	Congratulation from the Youth Center of cultural education of Taras Shevchenko National University of Kyiv, National Choir “Dnipro” , artistic director – Iryna DUSHEYKO .
<u>10:00 – 12:00 – PLENARY SESSION</u>	
10:00 – 10:30	THERAPEUTIC TARGETING OF PROTUMOR MYELOPOIESIS Antonio SICA , Professor (Pharmacological Sciences), Department of Pharmacological Sciences, University of Eastern Piedmont, Novara; Head of The Laboratory of Molecular Immunology, Humanitas Clinical and Research Center, Milan, Italy
10:30 – 11:00	POTENCY AND TIMING OF INTERFERON-INDUCER ANTIVIRALS AGAINST COVID-19 Dace PJANOVA , PhD, Corresponding Member of Latvian Academy of Sciences, a senior researcher at the Latvian Biomedical Research and Study Centre, Riga, Latvia
11:00 – 11:30	DEVELOPMENT OF NEW VACCINE ADJUVANTS BASED ON THE STRUCTURE OF NATURAL SAPONINS Đani ŠKALAMERA , PhD, Assistant Professor, University of Zagreb, Faculty of Science, Division of Organic Chemistry, Zagreb, Republic of Croatia
11:30 – 12:00	THE ROLE OF IMMUNE SYSTEM IN THE DEVELOPMENT OF POST- INFLAMMATORY LUNG FIBROSIS AFTER COVID-19 Svitlana BYCHKOVA , PhD, associate professor of military therapy department of Ukrainian Military Medical academy, Kyiv, Ukraine

12.00 – 12.30 – BREAK

<u>12:30 – 15:20 – PLENARY SESSION (CONTINUATION)</u>	
12:30 – 13:00	ISOLATION AND IDENTIFICATION OF ENDOPHYTIC BACTERIA FROM SEEDS OF PARASITIC PLANTS OF SELECTED OROBANCHACEAE REPRESENTATIVES Wieslaw KACA , PhD, Professor, Head of the Department of Microbiology and Parasitology, Institute of Biology of the Jan Kochanowski University, Kielce, Poland

13:00 – 13:30	PRO- PRE- AND SYNBIOTIC SUPPLEMENTATION AND OXALATE HOMEOSTASIS: FOCUS ON MICROBIOTA OXALATE-DEGRADING ACTIVITY Ganna TOLSTANOVA , ScD, Professor, Vice-Rector for Science at Taras Shevchenko National University of Kyiv, Kyiv, Ukraine
13:30 – 14:00	ANTIMICROBIAL AND ANTIBIOFILM FORMING PROPERTIES OF MEDICINAL PLANTS: FROM SCREENING TO PHYTOCOMPOSITIONS Maryna KRYVTSOVA , ScD, Professor, Department of Fundamental Medical Disciplines, Uzhhorod National University, Uzhhorod, Ukraine
14:00 – 14:30	CRACKING DOWN THE ‘SECOND GENETIC CODE’ WITH EPIGENETICS Oleg REVA , PhD, Professor on Bioinformatics in the Centre for Bioinformatics and Computational Biology at the University of Pretoria, Pretoria, South African Republic
14:30 – 15:00	BIOCHEMICAL INDICATORS OF REACTIONS OF BACTERIA FROM DIFFERENT BIOTOPES UNDER THE INFLUENCE OF HEAVY METAL COMPOUNDS Svitlana HNATUSH , PhD, Professor, Head of the Department of Microbiology, Ivan Franko National University of Lviv, Lviv, Ukraine

15:00 – 16:00 – BREAK

16:00 – 18:00 – FLOW CYTOMETRY TRAINING COURSE from “Beckman Coulter Ukraine” (ESC “Institute of Biology and Medicine”)

September 23, Friday

<u>09:30 – 11:15 – SECTION «THE APPLIED ASPECTS OF MICROBIOLOGY»</u>	
Chairs: Iryna DOMBROVSKA, Larysa STEPURA, Andrii SIROMOLOT	
09:30 – 09:45	INTENSITY OF BIOFILM FORMATION BY BACILLUS SIMPLEX ISOLATED FROM SOIL FERROSPHERE UNDER THE INFLUENCE OF STREPTOMYCETES Nataliia TKACHUK , PhD, Associate Professor, “Chernihiv Collegium” T.G. Shevchenko National University
09:45 – 10:00	FEATURES OF DESTABILIZATION OF ADE2-MIN3 MINISATELLITE REPEAT IN RHO+ AND RHO0 STRAINS OF SACCHAROMYCES CEREVISIAE Olga PRONINA , Leading Engineer, Institute of Cell Biology and Genetic Engineering, NASU
10:00 – 10:15	BIOSYNTHESIS OF POLYENE ANTIBIOTICS AND BIOLOGICALLY ACTIVE SUBSTANCES UNDER THE ACTION OF EXOGENOUS INDOLE-3-CARBINOL AND B-SITOSTEROL BY <i>STREPTOMYCES NETROPSIS</i> IMV AC-5025 Mariia LOBODA , PhD, Junior Researcher, D.K. Zabolotny Institute of Microbiology and Virology of the NASU

10:15 – 10:30	<p>TREATMENT OF POLYMETALLIC WASTEWATER BASED ON SULFIDOGENIC MICROBIOMES</p> <p>Iryna BIDA, PhD Student, Leading Engineer, D.K. Zabolotny Institute of Microbiology and Virology of the NASU</p>
10:30 – 10:45	<p>APPROACHING THE ACTIVATION OF SALINAMIDE-LIKE BIOSYNTHETIC GENE CLUSTER IN CLOROBIOCIN PRODUCER STREPTOMYCES ROSEOCHROMOGENES NRRL 3504</p> <p>Roksolana DUBAN, Student, Ivan Franko National University of Lviv</p>
10:45 – 11:00	<p>IN SILICO RECONSTRUCTION OF GLOBAL REGULATORY NET IN LANDOMYCIN E PRODUCER STREPTOMYCES GLOBISPORUS 1912</p> <p>Anastasiia BARKHATOVA, Student, Ivan Franko National University of Lviv</p>
11:00 – 11:15	<p>DEVELOPING GENETIC TOOLS FOR MANIPULATING STREPTOMYCES ROSEOCHROMOGENES NRRL 3504 GENOME FOR INCREASING CLOROBIOCIN PRODUCTION</p> <p>Anastasia STEPANYSHYN, Student, Ivan Franko National University of Lviv</p>
<p><u>11:15 – 12:30 – SECTION «THE APPLIED ASPECTS OF MICROBIOLOGY AND MICROORGANISMS IN AGRICULTURE»</u></p>	
11:15 – 11:30	<p>DEVELOPMENT OF REAL-TIME PCR TO DETECT RALSTONIA SOLANACEARUM SPECIES COMPLEX BASED ON 16S RNA</p> <p>Nataliia HRYTSEVA, PhD Student, Taras Shevchenko National University of Kyiv</p>
11:30 – 11:45	<p>VIRULENCE OF SORGHUM PATHOGENS STRAINS AFTER LONG-TERM STORAGE IN THE CULTURES COLLECTION</p> <p>Mykola RESHETNIKOV, PhD Student, D.K. Zabolotny Institute of Microbiology and Virology of the NASU</p>
11:45 – 12:00	<p>MICROBIOTA OF THE RHIZOSPHERE OF CALAMAGROSTIS EPIGEIOS, HYPERICUM PERFORATUM AND LEUCANTHEMUM VULGARE LAM. OF OVERGROWN DUMP OF THE MINE "VIZEISKA" CHERVONOHRAD MINING DISTRICT</p> <p>Natalya MENIV, PhD Student, Ivan Franko National University of Lviv</p>
12:00 – 12:15	<p>GRAIN-RESIDING ENDOPHYTIC BACTERIUM PAENIBACILLUS POLYMYXA P 6.3 POSSESSES GROWTH-PROMOTING ACTIVITY AND PROTECT WHEAT GRAIN FROM PATHOGENIC EFFECT OF PSEUDOMONAS SYRINGAE</p> <p>Daryna SHUSTYK, Student, Taras Shevchenko National University of Kyiv</p>

12:15 – 12:30	<p align="center">WHEAT SYMBIOTIC MICROBIOME</p> <p align="center">Yuliia KACHKAROVA, Student, Taras Shevchenko National University of Kyiv</p>
<p align="center">12:30 – 13:00 – BREAK</p> <p align="center"><u>13:00 – 14:00 – POSTER PRESENTATIONS</u></p> <p align="center">Chairs: Alina STASENKO, Tetiana SERHIICHUK, Andrii SIROMOLOT</p>	
<p align="center"><u>14:00 – 16:30 – SECTION «IMMUNOLOGY»</u></p> <p align="center">Chairs: Larysa SKIVKA, Olha MOLOZHAVA, Alina STASENKO, Mariia RUDYK</p>	
14:00 – 14:15	<p align="center">ACTUALLY LABORATORY PARAMETERS FOR PROGNOSIS OF FERTILITY IN PATIENTS WITH VARICOCELE</p> <p align="center">Nakonechnyi Y.¹, Nakonechnyi A.¹, Fraczek M.², Havrylyuk Anna¹, Kamieniczna M.², Chopyak V.¹, Kurpysz M.²</p> <p align="center">¹Medical University named Danylo Halytzkyy, Lviv, Ukraine ²Institute of Human Genetic of Polish Akademy of Science, Poznan, Poland</p>
14:15 – 14:30	<p align="center">INDICATORS OF SKIN MICROBIOTA AND PHAGOCYTTIC ACTIVITY IN MEAT AND EGG PRODUCTION WORKERS</p> <p align="center">Vadym SOKOLENKO, Associate Professor, Bohdan Khmelnytsky National University of Cherkasy</p>
14:30 – 14:45	<p align="center">SHP2 KNOCKOUT ENHANCES SURVIVAL, PROLIFERATION AND EFFECTOR PROPERTIES OF REGULATORY T-CELLS</p> <p align="center">Dmytro SHYTIKOV, Lecturer, PhD, Zhejiang University - University of Edinburgh Institute, China</p>
14:45 – 15:00	<p align="center">THERAPEUTIC EFFICACY OF ANTI-CD19 CAR-T CELLS IN A MOUSE MODEL OF SYSTEMIC LUPUS ERYTHEMATOSUS</p> <p align="center">JIN XUEXIAO, Assistant Researcher, Sir Run Run Shaw Hospital, Zhejiang University School of Medicine, China</p>
15:00 – 15:15	<p align="center">CIRCADIAN VARIATION IN FUNCTIONAL POLARIZATION OF MURINE PERITONEAL MACROPHAGES</p> <p align="center">Roman DOVHYI, PhD, Assistant Professor, Taras Shevchenko National University of Kyiv</p>
15:15 – 15:30	<p align="center">ANALYSIS OF EPIDEMIOLOGY SARS-COV-2 GENOMIC MUTATIONS IN UKRAINE</p> <p align="center">Serhii TROTSKO, Student, Poltava State Medical University</p>

15:30 – 15:45	<p>THE STATE OF LABORATORY DIAGNOSTIC FOR COVID-19 IN UKRAINE: DYNAMICS, GOOGLE TRENDS AND PROGNOSIS</p> <p>Roman SEMA, Student, Poltava State Medical University</p>
15:45 – 16:00	<p>FUNCTIONAL ALTERATIONS OF PERITONEAL MACROFAGES IN RATS WITH DIFFERENT MODELS OF PARKINSON'S DISEASE</p> <p>Zhanna OLIYNYK, PhD Student, Taras Shevchenko National University of Kyiv</p>
16:00 – 16:15	<p>FUNCTIONAL AND PHENOTYPIC CHARACTERISTICS OF CIRCULATING PHAGOCYTES IN RATS WITH DIFFERENT MODELS OF ALZHEIMER'S DISEASE</p> <p>Anastasiia NEFODOVA, PhD Student, Taras Shevchenko National University of Kyiv</p>
16:15 – 16:30	<p>INTEGRATIVE ANALYSIS OF MULTI-OMICS DATA REVEALS THE HETEROGENEITY AND SIGNATURES OF IMMUNE THERAPY FOR SMALL CELL LUNG CANCER</p> <p>ZHAOYUAN FANG, Zhejiang University - University of Edinburgh Institute, Zhejiang University, China</p>
<p><u>16:30 – 18:00 – SECTION «MICROORGANISMS IN PATHOLOGICAL PROCESSES»</u></p> <p>Chairs: Tetiana SERHIICHUK, Nataliia SENCHYLO, Iryna ALEKSANDROVA</p>	
16:30 – 16:45	<p>INTESTINAL MICROFLORA IN PATIENTS WITH CHRONIC SLOW TRANSIT CONSTIPATION BEFORE AND AFTER COLECTOMY</p> <p>Pavlo BYK, Doctor (Candidate) of Medical Sciences, Assistant Professor, Bogomolets National Medical University</p>
16:45 - 17:00	<p>SPIRULINA PLATENSIS AS A SOURCE OF NATURAL THERAPEUTICS FOR GLUCOSE INDUCED TOXICITY</p> <p>ALI AHMAD, Assistant Professor, University of Mumbai, India</p>
17:00 – 17:15	<p>MONITORING STUDIES OF ANIMAL AND POULTRY CAMPYLOBACTERIOSIS IN UKRAINE</p> <p>Natalia SHCHUR, PhD student, The National University of Life and Environmental Sciences of Ukraine</p>
17:15 – 17:30	<p>INFLUENCE OF SYNTHESIZED WATER-SUSPENDED PREPARATIONS OF CARBON-CONTAINING SMOKE NANOPARTICLES FROM NATURAL AND SYNTHETIC ORIGINS ON THE GROWTH INDICATORS OF ESCHERICHIA COLI B906</p> <p>Mariia KORBUSH, PhD Student, Taras Shevchenko National University of Kyiv</p>

17:30 – 17:45	LIPOPOLYSACCHARIDE-INDUCED GENOTOXIC STRESS IN CELLS OF THE IMMUNE AND REPRODUCTIVE SYSTEMS IN MICE Vladyslava MESHKO, Student, Taras Shevchenko National University of Kyiv
17:45 – 18:00	INTERACTION OF BROAD-HOST-RANGE BACTERIOPHAGE VB_PMI_TS WITH BACTERIA OF PROTEUS GENUS Daria HAMOVA, Student, Taras Shevchenko National University of Kyiv
18:00 – 18:15 - BREAK	
18:15 - 18:30 – CLOSING CEREMONY, AWARDING OF THE BEST ORAL AND POSTER PRESENTATIONS	

September 23, Friday

POSTER PRESENTATIONS

13:00 – 14:00

<i>SECTION "MICROBIOLOGY"</i>		
1	13:00-13:05	THE CULTURE MEDIUM OPTIMIZATION FOR PSEUDOMONAS PHENAZINE PIGMENT ACCUMULATION Mariia RUSAKOVA, Associated Professor, Odesa I.I. Mechnikov National University
2	13:05-13:10	ISOLATION AND CHARACTERIZATION OF NOVEL AEROMONAS SALMONICIDA INFECTING BACTERIOPHAGE JELG-KS1 Karina SVANBERGA, Laboratory Assistant, Biomedical Center of Latvia
3	13:10-13:15	MOLECULAR-GENETIC IDENTIFICATION OF UV-TOLERANT PLANT-ASSOCIATED BACTERIA FROM THE EXCLUSION ZONE Illia KOSTIUK, student Taras Shevchenko National University of Kyiv
4	—	GLYCEROL-INDUCED NEPHROPATHY AS A FACTOR INFLUENCING THE OXALATE-DEGRADATING FUNCTION OF FAECAL MICROBIOTA Margarita SKOVORODKA, student Taras Shevchenko National University of Kyiv
5	—	PROSPECTIVE USE OF NIGELLA SATIVA "DIANA" VARIETY OIL IN THERAPY OF ANTIBIOTIC-ASSOCIATED DYSBIOSIS Yevhen SHPYLOVYI, student Taras Shevchenko National University of Kyiv
<i>SECTION "IMMUNOLOGY"</i>		

6	13:15-13:20	<p>THE ROLE OF PROFILINS IN THE DEVELOPMENT OF IgE-MEDIATED RESPIRATORY AND FOOD ALLERGY IN THE CONDITIONS OF THE COVID-19</p> <p>Oleksandra BIELIAKOVA, virologist, PhD student Laboratory Synevo, Kyiv; Taras Shevchenko National University of Kyiv</p>
7	13:20-13:25	<p>ELECTROLYTIC AGGREGATION IN SOLUTIONS WITH QUANTUM DOTS AND GOLD NANOPARTICLES MODIFIED WITH OLIGONUCLEOTIDES</p> <p>Yevgeniia NESTERENKO, Leading Engineer, Institute of Cell Biology and Genetic Engineering, NASU</p>
8	13:25-13:30	<p>CYTOKINE RELEASE SYNDROME IN CD19 CAR T-CELL THERAPY OF B-CELL ACUTE LYMPHOBLASTIC LEUKEMIA</p> <p>Volodymyr DUBROVIN, student Oles Honchar Dnipro National University</p>
9	13:30-13:35	<p>EFFECTS OF STEM CELL CONDITIONED MEDIA ON THE AMOUNT OF BRAIN CORTEX NEURONS IN A RAT MODEL OF TRAUMATIC BRAIN INJURY</p> <p>Iryna KOLOBOVA, student Taras Shevchenko National University of Kyiv</p>
10	13:35-13:40	<p>PHENOTYPE AND FUNCTIONAL CHARACTERISTICS OF MICROGLIA IN ANIMALS WITH AMYLOID-β 1-40-INDUCED ALZHEIMER'S DISEASE</p> <p>Anastasiia MARYNCHENKO, student Taras Shevchenko National University of Kyiv</p>
11	13:40-13:45	<p>CYTOKININ FRACTION OF THE HERICIUM CORALLOIDES INCREASES OXIDATIVE METABOLISM OF MURINE PERITONEAL MACROPHAGES</p> <p>Danylo OSTAPCHENKO, student Taras Shevchenko National University of Kyiv</p>
12	13:45-13:50	<p>IMMUNOGLOBULIN ISOTYPES AND BLOOD MONOCYTE SUBPOPULATIONS IN COVID-19 FEMALE PATIENTS WITH DIFFERENT DISEASE SEVERITY</p> <p>Kateryna REBENKO, student Taras Shevchenko National University of Kyiv</p>
13	13:50-13:55	<p>FEATURES OF MAST CELL INFILTRATION OF THE PROSTATE MALIGNANT NEOPLASMS</p> <p>Anastasiia SOLOMAKHA, student Taras Shevchenko National University of Kyiv</p>
14	13:55-14:00	<p>ANALYSIS OF COVID-19 VACCINATION TREND AND ACCEPTANCE TO IT IN AMONG UKRAINIAN POPULATION</p> <p>Veronika MAMONTOVA, student Poltava State Medical University</p>