

International Biothreat Reduction Symposium

Monday, 24 October – Thursday, 27 October 2022

Monday, 24 October 2022

10:00 – 14:00 EET	Pre-Symposium Workshop 1: Epidemiologic Case Studies Dr. Timothée Dub, Senior Specialist at the Finnish Institute for Health and Welfare (THL) (Helsinki, Finland); Inessa Markus, Infectious disease epidemiology department, Robert Koch institute (Berlin, Germany)
14:00 – 17:00 EET	Pre-Symposium Workshop 2: Introduction to Sequencing Technologies, Bioinformatics, and Phylogenetics Dr. Matthew Scholz and Dr. Krista Ternus, Signature Science (Austin, TX)
14:00 – 17:00 EET	Pre-Symposium Workshop 3: Science Communication and promoting your science. BTRP-Ukraine Science Writing Mentorship Program Dr. Stephani Kim PhD, and Dr. Pratibha Nayak PhD, Battelle (Columbus, OH)
16:30 – 18:00 EET	Poster Viewing Open: Networking

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Tuesday, 25 October 2022

10:00 – 11:00 EET

Opening and Welcome Session

Welcome and Introductions – Dr. David Garcia, IBTRS Organizing Committee, Senior Research Scientist at Battelle

- Dr. Ada Bacetty, Department Chief for the Biological Threat Reduction Program, DTRA Cooperative Threat Reduction program
- Dr. Ihor Kuzin Deputy Minister of Health of Ukraine
- Dr. Olga Shevchenko; Deputy Head State Service of Ukraine for Food Safety and Consumer Protection (SSFSCP)
- Dr. Hans Henri Kluge, European Regional Director of the World Health Organization (WHO)

11:00 – 12:00 EET

Plenary Speaker

Moderator Dr. David Garcia

Dr. Colin Basler, Deputy Director, One Health Office, Centers for Disease Control and Prevention (CDC)

12:00 – 12:15 EET

Break

12:15 – 13:15 EET

Keynote Address

Moderator Dr. Dick Weller, Pacific Northwest National Labs (Ret.)

Keynote speaker

Dr. Laura Kahn, Co-Founder OneHealth Initiative; Physician, author, and educator

13:15 – 14:00 EET

Break: Networking

14:00 – 15:15 EET

Panel 1: "Prevent, Detect, and Respond: Coronavirus as a lens for emerging viral pandemics"

Chair: Dr. Megan Howard, Senior Research Scientist Battelle

Co-Chair: Dr. Ian Mendenhall, Senior Infectious Disease Advisor Emerging Threats Division Office of Infectious Disease, Bureau for Global Health USAID.

Panelists:

- Dr. Richard Gordon Pebody, Team Lead for High Threat Pathogens, WHO Health Emergencies Programme at the World Health Organization Regional Office for Europe in Denmark.
- Dr. Dick Weller, Pacific Northwest National Labs (Ret.)
- Dr. Anton Gerilovych, senior researcher in State Scientific and Research Institute for Laboratory Diagnostics and Veterinary and Sanitary Expertise; president of NGO "One Health Institute".
- Dr. Justin Bahl, Associate Professor at the University of Georgia in the College of Veterinary Medicine, the College of Public Health, and the Institute for Bioinformatics.
- Dr. Alla Mironenko, Professor and Head of Department of respiratory and other viral infections and Head of Scientific Influenza Center, L.V. Gromashevsky Institute of Epidemiology and Infectious Diseases

15:15 – 15:30 EET

Break: Networking

15:30 – 16:30 EET

Panel 2: "One Health Governance Best Practices: A United States Government Perspective"

Chair: Mr. David Stiefel, Director of Biodefense, National Security Council, Global Health Security & Biodefense Directorate

Panelists:

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- Dr. Casey Barton Behravesh, Director CDC One Health Office, National Center for Emerging Zoonotic Infectious Diseases (NCEZID);
- Dr. Tracey Dutcher, Science and Biodefense Coordinator, Office of the Administrator for USDA Animal and Plant Health Inspection Service (APHIS);
- Dr. Tonya Nichols, Senior Science Advisor, One Health Coordinator, U.S. Environmental Protection Agency

16:30 – 18:00 EET

Live Poster Session & Networking

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Wednesday, 26 October 2022

09:30 – 09:40 EET

Introduction

Dr. Valentyna Yatsyshyn, IBTRS Organizing Committee, Science Lead, Jacobs

09:40 – 10:45 EET

Regular Talks — Part 1

Chairs: Dr. Denys Muzyka & Dr. Alla Mironenko

- 295_Denys Muzyka. Natural Reservoirs of Animal and Avian Influenza in Ukraine. Epizootic and Epidemic Risks
- 320_Lela Urushadze. Past and ongoing Coronavirus research in Georgia
- 219_Alla Mironenko. Influenza Epidemic Process Peculiarities in the Context of SARS-CoV-2 Pandemic in Ukraine
- 273_Dmytro Chumachenko. COVID-19 Epidemic Process Model Based on Recurrent Neural Networks

10:45 – 12:00 EET

Lightning Talks — Part 1

Chairs: Dr. Tetyana Chumachenko & Dr. Iryna Furtat

- 274_Tetyana Chumachenko. Comparative Analysis of COVID-19 Epidemic Process Models Based on Machine Learning
- 142_Tetiana Nessonova. COVID-19 Epidemic Process Intensity Forecast in the Northern Region of Ukraine
- 185_Tamara Bilomeria. Preliminary Results of the Study of Vaccination against COVID-19 Effectiveness in Donetsk Oblast
- 179_Tetiana Tykhonenko. Could Ukrainian Universities Provide Competent Biosafety, Biosecurity and Bioethics Education?
- 308_Iryna Furtat. Concept of Teaching Academic Biosecurity and Biosafety Disciplines as a Countermeasure to the Main Challenges Under the Conditions of Disinformation War Against Ukraine
- 139_Larysa Usova. Improving Infectious Laryngotracheitis Diagnosis Based on Epizootic Pathogen Strains Relevant for Ukraine
- 307_Liudmyla Ishchenko. Creation of Panel of Positive Controls for Identifying Antibiotic Resistance Genes by Polymerase Chain Reaction in Different Pathogenic Microorganisms
- 135_Olga Shapovalova. Using Sodium Valproate to Stimulate Bovine Leukemia Virus Antigen Production in Cell Culture
- 202_Oryna Kraus. Monitoring Studies of Circulation of Yersiniosis Pathogens in Dnipropetrovsk Oblast from 2016 to 2020
- 158_Ruslana Echkenko. Wild Waterfowl as a Natural Source of Escherichia Coli Resistant to Antimicrobial Drugs
- 215_Olha Maiboroda. Salmonellosis Monitoring in Poultry in Ukraine during 2013-2020
- 246_Oleksandr Kornieikov. Control Measures against Viral Pneumoenteritis (Bovine Infectious Rhinotracheitis and Viral Diarrhea) in Ukrainian Dairy Farms

12:00 – 12:15 EET

Break: Networking

12:15 – 13:30 EET

Panel 3: "One Health aspects of Animal Influenza, ecology and epidemiology of influenza viruses"

Chair: Dr. Denys Muzyka, Deputy Director, NSC Institute of Experimental and Clinical Veterinary Medicine (IECVM)

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	<p><u>Co-Chair:</u> Liudmyla Slobodanyk, national expert of the WHO office in Ukraine</p> <p><u>Panelists:</u></p> <ul style="list-style-type: none">• Dr. Alla Mironenko, DSc, professor, Head of Department of respiratory and other viral infections and Head of Scientific Influenza Center of the L.V. Gromashevsky Institute of Epidemiology and Infectious Diseases, Kyiv• Dr. Bianca Zecchin, EU/WOAH/National Reference Laboratory for Avian Influenza and Newcastle Disease• Dr. Helen Everett, Mammalian Influenza Team Leader in the Virology Department at the Animal and Plant Health Agency (APHA), an agency of the UK government Department for Environment, Food & Rural Affairs (Defra)• Dr. Joe James, virologist and the Team Leader of the WOAH/FAO International Reference Laboratory for Animal (Avian and Swine) Influenza and Newcastle Disease Virus at the Animal and Plant Health Agency (APHA), UK
13:30 – 14:15 EET	<p>Panel 4: "Special Lunch Discussion: "Disinformation and Biosecurity"</p> <p><u>Chair:</u> Dr. Iaroslava Maksymovych, Biosafety&Biosecurity Manager, Jacobs,</p> <p><u>Co-Chair:</u> Dr. Valentyna Yatsyshyn, Science Lead, Jacobs</p> <p><u>Panelists:</u></p> <ul style="list-style-type: none">• Dr. Olena Zubach, associate professor, Danylo Halytsky Lviv National Medical University, Lviv• Dr. Iryna Furtat, associate professor, National University of Kyiv Mohyla Academy, Kyiv• Dr. Tetiana Tykhonenko, researcher, Palladin Institute of Biochemistry, secretary of the NGO "Ukrainian Biosafety Association", Kyiv• Dr. Natalia Marchenko, researcher, NSC Institute of Experimental and Clinical Veterinary Medicine (IECVM), Kharkiv• Dr. Iryna Ganzha, Armed Forces of Ukraine, Kyiv
14:15 – 15:45 EET	<p>Panel 5: "One Health: Communication and Coordination across Sectors"</p> <p><u>Chair:</u> Dr. Gary Flory, Agricultural Program Manager for the Virginia Department of Environmental Quality</p> <p><u>Chair:</u> Dr. Bruce Bowman, Foreign Animal Disease Diagnostician (FADD) and Designated Scrapie Epidemiologist</p> <p><u>Panelists:</u></p> <ul style="list-style-type: none">• Dr. Oleksii Danylenko, Director General of the Department of Public Health, MoH of Ukraine;• Dr. Moroz, Director of the Department of Food Safety, Veterinary Medicine and Control in the Field of Organic Production of the SSUFSCP;• Vitaliy Bashynskiy, Ministry of Agriculture of Ukraine.
15:45 – 16:00 EET	<p><i>Break: Networking</i></p>
16:00 – 17:00 EET	<p>Keynote Session</p> <p><i>Moderator Dr. Dick Weller Battelle (ret.)</i></p> <p>Keynote Speaker</p> <p>Dr. Gerald Parker, Associate Dean for Global One Health at the School of Veterinary Medicine and Biomedical Sciences and Director, Pandemic</p>

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Preparedness and Biosecurity Policy Program at the Scowcroft Institute of International Affairs within the Bush School of Government and Public Service at Texas A&M University

17:00 – 18:00 EET

Live Poster Session & Networking

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Thursday, 27 October 2022

09:30 – 09:40 EET	Introduction Dr. Valentyna Yatsyshyn, IBTRS Organizing Committee, Science Lead, Jacobs
09:40 – 10:45 EET	Regular talks – Part 2: <i>Chairs: Dr. Vitalii Nedosekov & Dr. Olena Zubach</i> <ul style="list-style-type: none">• 315_Vitalii Nedosekov. Qualitative Risk Assessment of the Rabies Spread among Domestic and Wild Animals in Ukraine• 317_Iryna Demchyshyna. Virological Monitoring of Poliovirus Circulation in Ukraine• 266_Olena Zubach. Clinical and Epidemiological Characteristics of Leptospirosis in Lviv Oblast• 316_Oksana Yurchenko. Arboviruses: a Threat to Public Health in Ukraine
10:45 – 12:00 EET	Lightning Talks: <i>Chairs: Dr. Lesia Ivanyshyn & Dr. Uliana Fedoriachenko</i> <ul style="list-style-type: none">• 170_Zoia Nekhoroshykh. Epidemiological Potential of Combined Natural Foci of Especially Dangerous Infections in the Southern Region of Ukraine• 190_Olena Zublenko. Epidemic Situation with Intestinal Infections in Ukraine for 2019-2021• 287_Arsen Manucharyan. North- Eastern Forests of Armenia as a New Epizootic Area of <i>F. tularensis</i>• 262_Nataliia Rudova. Development of Synthetic Positive RNA Control for Detection of Hantaviruses by PCR• 255_Lesia Ivanyshyn. Assessment of the Burden of Tularemia in Ukraine, 2010-2021• 138_Iryna Kysliak. Poliomyelitis Epidemiological Surveillance in Ukraine in 2019-2020• 136_Oleksandra Prokopiv. Rare Case of Meningococcal Infection in Three-Month-Old Twins• 289_Lilit Sargsyan. Epidemiological Mapping as a Way to Fight Brucellosis• 231_Uliana Fedoriachenko. Case of Brucellosis in Lviv Oblast• 256_Olena Stankevych. Probability of Existence of an Active Anthrax Source, Ukraine, Odesa Oblast, 2020• 263_Liudmyla Maliar. Tularemia Case after a Cat Bite, Volyn Oblast, 2018
12:00 – 12:15 EET	<i>Break: Networking</i>
12:15 – 13:45 EET	Panel 6: "Pathogen Oversight in Ukraine" <u>Chair:</u> Dr. Iaroslava Maksymovych, BS&S Manager, Jacobs, <u>Co-Chair:</u> Dr. Bob Hawley, Biosafety and Biosecurity Consultant <u>Panelists:</u> <ul style="list-style-type: none">• Ketevan Zaridze, PhD candidate, CBRN Liaison Person and Environmental Health Specialist, National Center for Disease Control and Public Health, Georgia• Dr. Aparupa Sengupta, Senior Program Officer, NTIBio;• Dr. Lyudmyla Chernenko, Director General, Public Health Center, MoH of Ukraine

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	<ul style="list-style-type: none">• Dr. Dmytro Moroz, Director of the Department of Food Safety, Veterinary Medicine and Control in the Field of Organic Production of the SSUFSCP
13:45 – 14:00 EET	<i>Break: Networking</i>
14:00 – 15:30 EET	<p>Panel 7: "One Health Implementation"</p> <p><u>Chair:</u> Dr. Peter Sousa Hoejskov, Technical Officer, Food Safety and Zoonotic Diseases Department/Division: Infectious Hazard Management, WHO Health Emergencies Programme</p> <p><u>Co-Chair:</u> Dr. Margaret Khaita, Professor of Veterinary Epidemiology, Department of Pathobiology and Population Medicine, College of Veterinary Medicine, Mississippi State University</p> <p><u>Panelists:</u></p> <ul style="list-style-type: none">• Dr. Skip Jack, Professor, Pathobiology and Population Medicine, Mississippi State University• Dr. Samuel Wonjoha Country Manager, AFROHUN Kenya• Dr. Olga Shevchenko Deputy Head State Service of Ukraine for Food Safety and Consumer Protection (SSFSCP)• Dr. Yuri Kosenko, deputy director of the State Research Control Institute of Veterinary Medicinal Products and Feed Additives, head of the National Agency of Veterinary Medicines and Feed Additives• Dr. Dmytro Moroz Director of the Department of Food Safety, Veterinary Medicine and Control in the Field of Organic Production of the SSUFSCP
15:30 – 15:45 EET	<i>Break: Networking</i>
15:45 – 16:15 EET	<p>Remarks from Ukrainian Public Health Partners</p> <p><i>Moderator: Dr. Mher Davidyants, FETP Resident Advisor, Jacobs</i></p> <ul style="list-style-type: none">• Dr. Ezra Barzilay, Country Director of the CDC office in Kyiv, Ukraine;• Dr. Ben Zinner, USAID Ukraine Health Office Director
16:15 – 16:45 EET	<p>Closing Ceremony: Comments from DTRA, FSCP, MoH, WHO)</p> <p><i>Moderator: Dr. David Garcia, Battelle</i></p> <ul style="list-style-type: none">• Dr. Guillaume Simonian, WHO Emergence and Programmes Lead, WHO Office Ukraine• Jakob Johnson, International Program Manage-Ukraine, Biological Threat Reduction Program (BTRP), Defense Threat Reduction Agency (DTRA);• Dr. Olga Shevchenko Deputy Head State Service of Ukraine for Food Safety and Consumer Protection (SSFSCP)
16:45 – 18:00 EET	<p>Awards: Oral and Poster Presentations</p> <p>Posters Open for Viewing</p>