

# International Biothreat Reduction Symposium

Monday, 24 October – Thursday, 27 October 2022

## Monday, 24 October 2022

10:00 – 14:00 EET	<b>Pre-Symposium Workshop 1: Epidemiologic Case Studies</b> 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	<b>Pre-Symposium Workshop 2: Introduction to Sequencing Technologies, Bioinformatics, and Phylogenetics</b> Dr. Matthew Scholz and Dr. Krista Ternus, Signature Science (Austin, TX)
14:00 – 17:00 EET	<b>Pre-Symposium Workshop 3: Science Communication and promoting your science. BTRP-Ukraine Science Writing Mentorship Program</b> Dr. Stephani Kim PhD, and Dr. Pratibha Nayak PhD, Battelle (Columbus, OH)
16:30 – 18:00 EET	<b>Poster Viewing Open: Networking</b>

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Tuesday, 25 October 2022

10:00 – 11:00 EET	<b>Opening and Welcome Session</b> <b>Welcome and Introductions – Dr. David Garcia, IBTRS Organizing Committee, Senior Research Scientist at Battelle</b> <ul style="list-style-type: none"><li>• Dr. Ada Bacetty, Department Chief for the Biological Threat Reduction Program, DTRA Cooperative Threat Reduction program</li><li>• Dr. Ihor Kuzin Deputy Minister of Health of Ukraine</li><li>• Dr. Olga Shevchenko; Deputy Head State Service of Ukraine for Food Safety and Consumer Protection (SSFSCP)</li><li>• Dr. Hans Henri Kluge, European Regional Director of the World Health Organization (WHO)</li></ul>
11:00 – 12:00 EET	<b>Plenary Speaker</b> <i>Moderator Dr. David Garcia</i> Dr. Colin Basler, Deputy Director, One Health Office, Centers for Disease Control and Prevention (CDC)
12:00 – 12:15 EET	<i>Break</i>
12:15 – 13:15 EET	<b>Keynote Address</b> Moderator Dr. Dick Weller, Pacific Northwest National Labs (Ret.) <b>Keynote speaker</b> Dr. Laura Kahn, Co-Founder OneHealth Initiative; Physician, author, and educator
13:15 – 14:00 EET	<i>Break: Networking</i>
14:00 – 15:15 EET	<b>Panel 1: "Prevent, Detect, and Respond: Coronavirus as a lens for emerging viral pandemics"</b> <u>Chair:</u> Dr. Megan Howard, Senior Research Scientist Battelle <u>Co-Chair:</u> Dr. Ian Mendenhall, Senior Infectious Disease Advisor Emerging Threats Division Office of Infectious Disease, Bureau for Global Health USAID. <u>Panelists:</u> <ul style="list-style-type: none"><li>• 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.</li><li>• Dr. Dick Weller, Pacific Northwest National Labs (Ret.)</li><li>• 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".</li><li>• 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.</li><li>• 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</li></ul>
15:15 – 15:30 EET	<i>Break: Networking</i>
15:30 – 16:30 EET	<b>Panel 2: "One Health Governance Best Practices: A United States Government Perspective"</b> <u>Chair:</u> Mr. David Stiefel, Director of Biodefense, National Security Council, Global Health Security & Biodefense Directorate <u>Panelists:</u>

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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	<b>Introduction</b> Dr. Valentyna Yatsyshyn, IBTRS Organizing Committee, Science Lead, Jacobs
09:40 – 10:45 EET	<b>Regular Talks — Part 1</b> <i>Chairs: Dr. Denys Muzyka &amp; Dr. Alla Mironenko</i> <ul style="list-style-type: none"><li>• 295_Denys Muzyka. Natural Reservoirs of Animal and Avian Influenza in Ukraine. Epizootic and Epidemic Risks</li><li>• 320_Lela Urushadze. Past and ongoing Coronavirus research in Georgia</li><li>• 219_Alla Mironenko. Influenza Epidemic Process Peculiarities in the Context of SARS-CoV-2 Pandemic in Ukraine</li><li>• 273_Dmytro Chumachenko. COVID-19 Epidemic Process Model Based on Recurrent Neural Networks</li></ul>
10:45 – 12:00 EET	<b>Lightning Talks — Part 1</b> <i>Chairs: Dr. Tetyana Chumachenko &amp; Dr. Iryna Furtat</i> <ul style="list-style-type: none"><li>• 274_Tetyana Chumachenko. Comparative Analysis of COVID-19 Epidemic Process Models Based on Machine Learning</li><li>• 142_Tetiana Nessonova. COVID-19 Epidemic Process Intensity Forecast in the Northern Region of Ukraine</li><li>• 185_Tamara Bilomeria. Preliminary Results of the Study of Vaccination against COVID-19 Effectiveness in Donetsk Oblast</li><li>• 179_Tetiana Tykhonenko. Could Ukrainian Universities Provide Competent Biosafety, Biosecurity and Bioethics Education?</li><li>• 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</li><li>• 139_Larysa Usova. Improving Infectious Laryngotracheitis Diagnosis Based on Epizootic Pathogen Strains Relevant for Ukraine</li><li>• 307_Liudmyla Ishchenko. Creation of Panel of Positive Controls for Identifying Antibiotic Resistance Genes by Polymerase Chain Reaction in Different Pathogenic Microorganisms</li><li>• 135_Olga Shapovalova. Using Sodium Valproate to Stimulate Bovine Leukemia Virus Antigen Production in Cell Culture</li><li>• 202_Oryna Kraus. Monitoring Studies of Circulation of Yersiniosis Pathogens in Dnipropetrovsk Oblast from 2016 to 2020</li><li>• 158_Ruslana Echkenko. Wild Waterfowl as a Natural Source of Escherichia Coli Resistant to Antimicrobial Drugs</li><li>• 215_Olha Maiboroda. Salmonellosis Monitoring in Poultry in Ukraine during 2013-2020</li><li>• 246_Oleksandr Kornieikov. Control Measures against Viral Pneumoenteritis (Bovine Infectious Rhinotracheitis and Viral Diarrhea) in Ukrainian Dairy Farms</li></ul>
12:00 – 12:15 EET	<i>Break: Networking</i>
12:15 – 13:30 EET	<b>Panel 3: "One Health aspects of Animal Influenza, ecology and epidemiology of influenza viruses"</b> <u>Chair:</u> 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"><li>• 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</li><li>• Dr. Bianca Zecchin, EU/WOAH/National Reference Laboratory for Avian Influenza and Newcastle Disease</li><li>• 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 &amp; Rural Affairs (Defra)</li><li>• 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</li></ul>
13:30 – 14:15 EET	<p><b>Panel 4: "Special Lunch Discussion: "Disinformation and Biosecurity"</b></p> <p><u>Chair:</u> Dr. Iaroslava Maksymovych, Biosafety&amp;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"><li>• Dr. Olena Zubach, associate professor, Danylo Halytsky Lviv National Medical University, Lviv</li><li>• Dr. Iryna Furtat, associate professor, National University of Kyiv Mohyla Academy, Kyiv</li><li>• Dr. Tetiana Tykhonenko, researcher, Palladin Institute of Biochemistry, secretary of the NGO "Ukrainian Biosafety Association", Kyiv</li><li>• Dr. Natalia Marchenko, researcher, NSC Institute of Experimental and Clinical Veterinary Medicine (IECVM), Kharkiv</li><li>• Dr. Iryna Ganzha, Armed Forces of Ukraine, Kyiv</li></ul>
14:15 – 15:45 EET	<p><b>Panel 5: "One Health: Communication and Coordination across Sectors"</b></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"><li>• Dr. Oleksii Danylenko, Director General of the Department of Public Health, MoH of Ukraine;</li><li>• Dr. Moroz, Director of the Department of Food Safety, Veterinary Medicine and Control in the Field of Organic Production of the SSUFSCP;</li><li>• Vitaliy Bashynskiy, Ministry of Agriculture of Ukraine.</li></ul>
15:45 – 16:00 EET	<p><i>Break: Networking</i></p>
16:00 – 17:00 EET	<p><b>Keynote Session</b></p> <p><i>Moderator Dr. Dick Weller Battelle (ret.)</i></p> <p><b>Keynote Speaker</b></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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09:30 – 09:40 EET

## Introduction

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

09:40 – 10:45 EET

## Regular talks – Part 2:

*Chairs: Dr. Vitalii Nedosekov & Dr. Olena Zubach*

- 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:

*Chairs: Dr. Lesia Ivanyshyn & Dr. Uliana Fedoriachenko*

- 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 *F. tularensis*
- 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

*Break: Networking*

12:15 – 13:45 EET

## Panel 6: "Pathogen Oversight in Ukraine"

Chair: Dr. Iaroslava Maksymovych, BS&S Manager, Jacobs,

Co-Chair: Dr. Bob Hawley, Biosafety and Biosecurity Consultant

### Panelists:

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