



# Biological situation regarding extremely hazardous and dangerous human and economically significant animal diseases

## Statement of U.S. Department of State (29 August 2022)

U.S. DEPARTMENT of STATE

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### Joint Statement on the Contribution of Cooperative Threat Reduction Partnerships to Global Health Security

MEDIA NOTE

OFFICE OF THE SPOKESPERSON

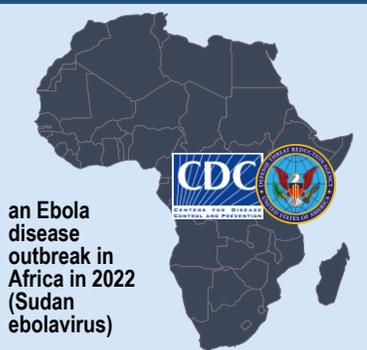
AUGUST 29, 2022

The COVID-19 pandemic has underscored the importance of strong national capacities for infectious disease surveillance, diagnosis, and response. International cooperation and assistance play a critical role in building these capacities. Our governments have partnered openly and transparently through the Biological Threat Reduction Program, which is a part of the U.S. Department of Defense

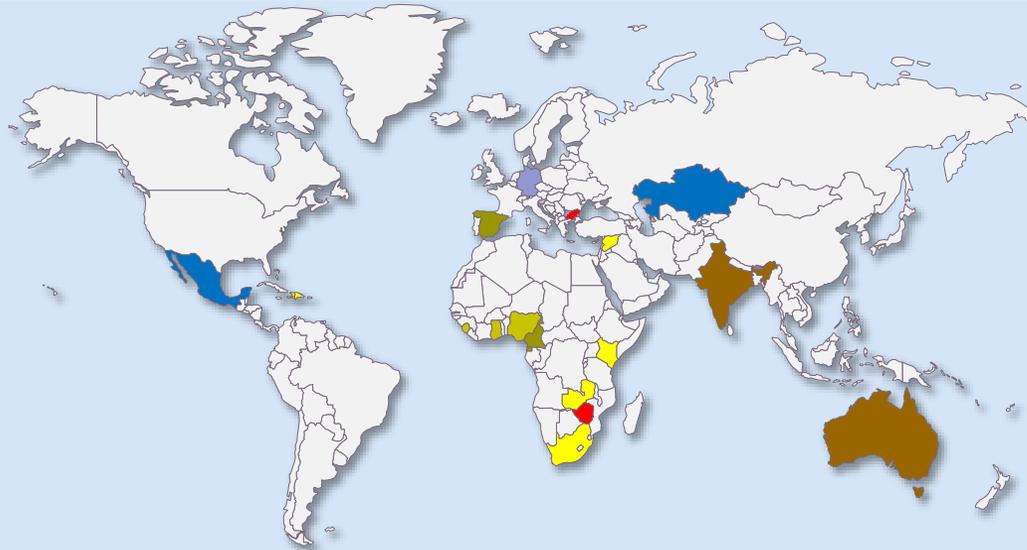
Cooperative Threat Reduction Program. These partnerships are devoted exclusively to peaceful purposes; they have nothing to do with weapons. These partnerships protect the health of humans and animals in our countries, including in the prevention, detection, and control of infectious disease outbreaks, and in enhancing laboratory biosafety and biosecurity. As partners in this program, we each have firsthand knowledge of its relevance to our shared goal of cooperating to strengthen global health security and reduce the impacts of infectious diseases on our societies. Our governments strongly affirm the common view that such cooperation should not be undermined, but rather promoted and reinforced. Pursuant to Article X, we encourage all Biological Weapons Convention States Parties to work together, including at the forthcoming Review Conference, in support of this goal.

The text of the following statement was released by the Governments of the United States of America, Armenia, Georgia, Iraq, Jordan, Liberia, Philippines, Sierra Leone, Uganda, and Ukraine.

## Ebola outbreak 2022



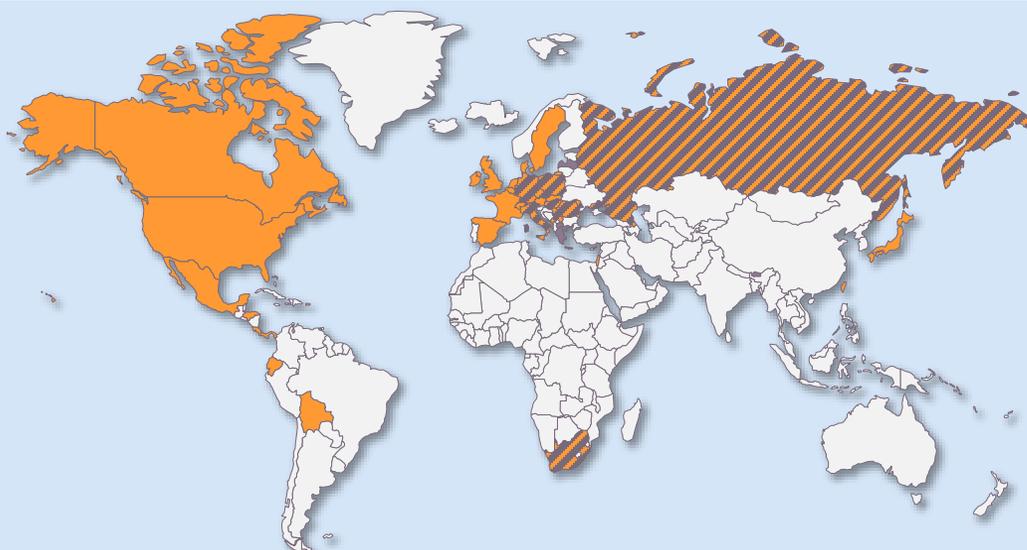
## Epidemic situation for extremely hazardous and dangerous human diseases (2022-2023)



**Number of cases:**

- Marburg fever:** Spain (1), Cameroon (2), Equatorial Guinea (25)
- Lassa fever:** Ghana (14), Nigeria (116), Sierra Leone (15)
- Q fever:** Bulgaria (7), Germany (2)
- Anthrax:** Bulgaria (1), Zimbabwe (61)
- Brucellosis:** Kazakhstan (283), Mexico (5)
- Japanese encephalitis:** India (1,331), Australia (45)
- Cholera:** Syria (84,607), Zambia (42), Kenya (16), South Africa (2), Haiti (28,901), Dominican Republic (47)

## Epizootological situation for economically significant animal diseases (2023)



**Number of foci:**

- African swine fever:** Hungary (35), Germany (2), Greece (2), Italy (51), Latvia (35), Moldova (4), Poland (168), Russia (2), Romania (72), Serbia (15), S. Macedonia (1), Czech Republic (2), Bhutan (1), South Africa (4)
- Highly pathogenic avian influenza:** Austria (48), Belgium (29), Germany (7), Hungary (7), Ireland (1), Italy (3), Luxembourg (1), Moldova (1), Netherlands (3), Poland (49), Romania (11), Russia (3), Serbia (1), Spain (1), UK (26), Slovakia (1), Slovenia (1), France (73), Czech Republic (13), Switzerland (2), Sweden (7), Israel (3), Japan (12), South Africa (1), Bolivia (2), Honduras (1), Canada (1), Costa Rica (1), Mexico (1), Panama (1), USA (14), Ecuador (7)

# Big Pharma's 'directed evolution' research

## Request from the U.S. Senate regarding Pfizer's 'directed evolution' research

Congress of the United States  
Washington, DC 20510

February 13, 2023

Mr. Xavier Becerra  
Secretary of Health and Human Services  
U.S. Department of Health and Human Services  
200 Independence Avenue, SW  
Washington, DC 20201

The Honorable Robert M. Califf  
Commissioner  
U.S. Food and Drug Administration  
10903 New Hampshire Ave.  
Silver Spring, MD 20993

Lawrence A. Tabak, D.D.S., Ph.D.  
Acting Director  
National Institutes of Health  
9000 Rockville Pike  
Bethesda, Maryland 20892

Dear Secretary Becerra, Commissioner Califf, and Acting Director Tabak,

We write to express grave concern regarding a recent video in which a Pfizer employee made troubling claims about the company's research practices and interactions with the Food and Drug Administration (FDA). Project Veritas, a journalism nonprofit, filmed the video during an undercover investigation.<sup>1</sup> In the video, Project Veritas identified the employee as Dr. Jordan Triston Walker, Pfizer's Director of Research and Development, Strategic Operations + mRNA Scientific Planner. Pfizer did not dispute that Dr. Walker holds that position when responding to the video.<sup>2</sup>

Dr. Walker made two alarming claims. First, he claimed that Pfizer is considering conducting "directed evolution" research to improve the efficacy of its COVID-19 vaccine. Dr. Walker's description of directed evolution resembles gain-of-function (GOF) research, which has been the subject of much controversy—with good reason. HHS defines GOF as "research that improves the ability of a pathogen to cause disease [and] help define the fundamental nature of human-pathogen interactions."<sup>3</sup> In other words, GOF research strengthens viruses so that scientists can study their effects and proactively develop countermeasures. Since 2011, such research has been the subject of intense scrutiny by scientists and ethicists.<sup>4</sup> In fact, the NIH placed a moratorium on GOF research funding from 2014 to 2017 after a series of breaches in safety protocol at the NIH and CDC.<sup>5</sup>

Multiple sources suggest that the COVID-19 pandemic began when an enhanced virus leaked from the Wuhan Institute of Virology, where GOF research was being conducted.<sup>6</sup> A few weeks ago, two scientists who previously authored 129 research papers on the subject of gain-of-function research wrote that they stated, "on COVID-19's origins wrote an op-ed in which they stated, "on

virus's potency and rapid spread. Given the possibility that GOF research may have ignited the global pandemic, it is worrying that Pfizer is engaging in research that appears similar in nature.

Dr. Walker's second disturbing claim is that the relationship between major pharmaceutical companies and the FDA is a "revolving door." Below are two quotes in which Dr. Walker expounds on this conflict of interest.<sup>7</sup>

"So, in the pharma industry, all the people who review our drugs — eventually most of them will come work for pharma companies... It's pretty good for the industry to be honest. It's bad for everybody else in America."

The undercover interviewer then asks, "Why is it bad?" Jordan continues:

"Because when the regulators reviewing our drugs know that once they stop regulating, they are going to work for the company, they are not going to be as hard towards the company that's going to give them a job."

Dr. Walker's description of Pfizer's relationship with the FDA sounds like regulatory capture, in which regulators seek to advance commercial interests rather than the public's interest. If true, regulatory capture of the FDA is troubling for two primary reasons. First, it subordinates public safety to personal gain. If Dr. Walker is correct, some regulators may be sacrificing current safety standards for future employment opportunities.

Second, regulatory capture is fundamentally unfair to smaller companies without the clout to affect agency decisions. Many larger pharmaceutical firms seek to shield their products from the competition by advocating for greater regulation or special exceptions. This shielding increases prices and can limit patient access to new treatments. Dr. Walker's comments help explain why smaller pharmaceutical firms report feeling ignored by the agency. Such a system is patently unfair and is antithetical to the equal treatment of the law.

In collaboration with the FDA and NIH, we ask that you respond to the following questions:

1. When asked if Pfizer is considering mutating COVID, Dr. Walker said, "One of the things we're exploring is like, why don't we just mutate it ourselves so we could preemptively develop new vaccines..." Dr. Walker explains that so-called "directed-evolution" research is distinct from gain-of-function research because directed evolution involves doing "selected structure mutations to try to see if we can make [viruses] more potent."<sup>8</sup> Do subject matter experts at the FDA or NIH consider Pfizer "mutat[ing] [SARS-CoV-2] ourselves so we could preemptively develop new vaccines" to be gain-of-function research? If not, please explain the distinction.
2. The U.S. Office of Government Ethics principles states, "Employees shall act impartially and not give preferential treatment to any individual or organization." Do you believe that Pfizer's relationship with the FDA is in violation of this principle?

directed evolution research for its COMIRNATY® (COVID-19 vaccine) is legally distinct from its Pfizer-BioNTech COVID-19 vaccine?

Chip Roy  
Member of Congress

Andy Biggs  
Member of Congress

W. Gregory Steube  
Member of Congress

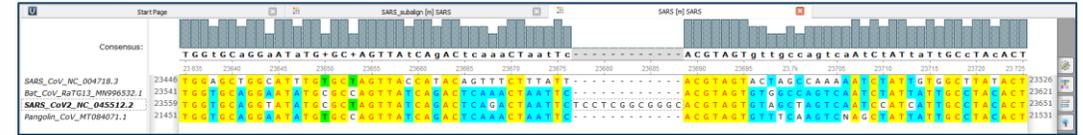
Bill Posey  
Member of Congress

Lauren Boebert  
Member of Congress

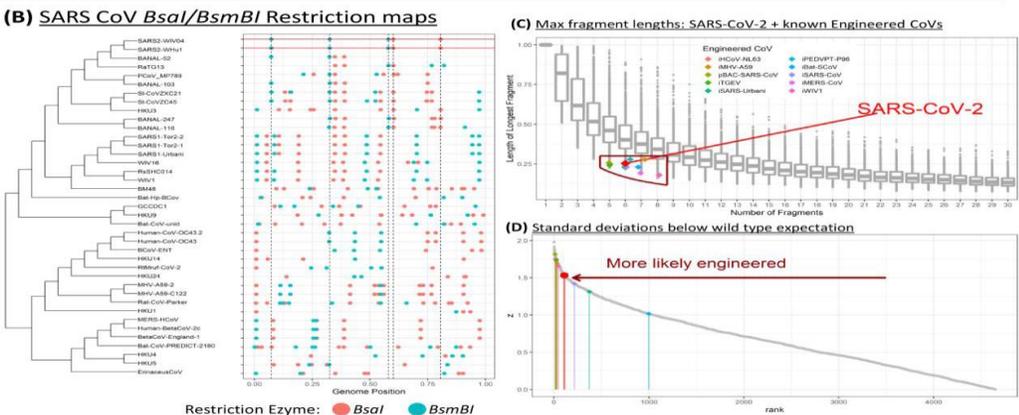
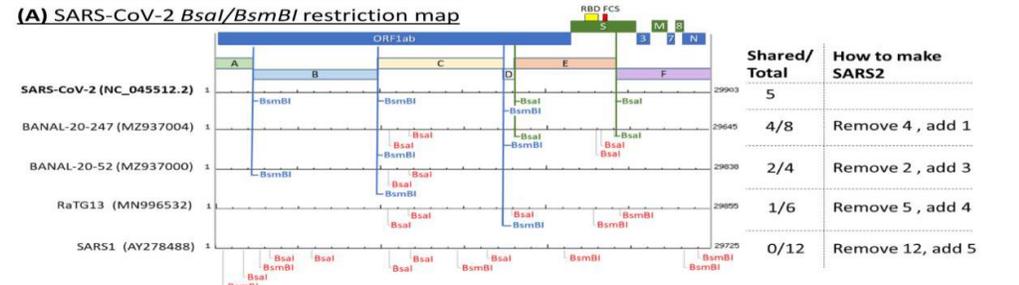
'...Pfizer is considering conducting "directed evolution" research to improve the efficacy of its COVID-19 vaccine... Dr. Walker's description of directed evolution resembles gain-of-function (GOF) research...'  
'...In fact, the NIH placed a moratorium on GOF research funding from 2014-2017 after a series of breaches in safety protocol at the NIH and CDC.'

'...Dr. Walker's description of Pfizer's relationship with the FDA sounds like regulatory capture, in which regulators seek to advance commercial interests rather than the public's interest...'  
'...First, it subordinates public safety to personal gain. If Dr. Walker is correct, some regulators may be sacrificing current safety standards for future employment opportunities.'  
'Second, regulatory capture is fundamentally unfair to smaller companies without the clout to affect agency [FDA] decisions.'

## Modification of SARS-CoV-2 genome by synthetic biology methods



Results of mammalian coronaviruses' gene alignment (SARS-CoV, Bat-CoV, SARS-CoV-2, Pangolin-CoV)



Map of SARS-CoV-2 restriction sites (Bruttel M. Endonuclease fingerprint indicates a synthetic origin of SARS-CoV-2 / Bruttel M., Washburne A. // bioRxiv. – 2022. – P. 1-17)

Several researchers believe that SARS-CoV-2 may be a product of directed evolution, as it has a set of unique restriction sites typical for synthetic viruses

Pfizer Executive: 'Mutate' COVID via 'Directed Evolution' for Company to Continue Profiting Off of Vaccines ... 'COVID is Going to be a Cash Cow for Us' ... 'That is Not What We Say to the Public' ... 'People Won't Like That' ... 'Don't Tell Anyone'



# US methods for developing global biosecurity regulations

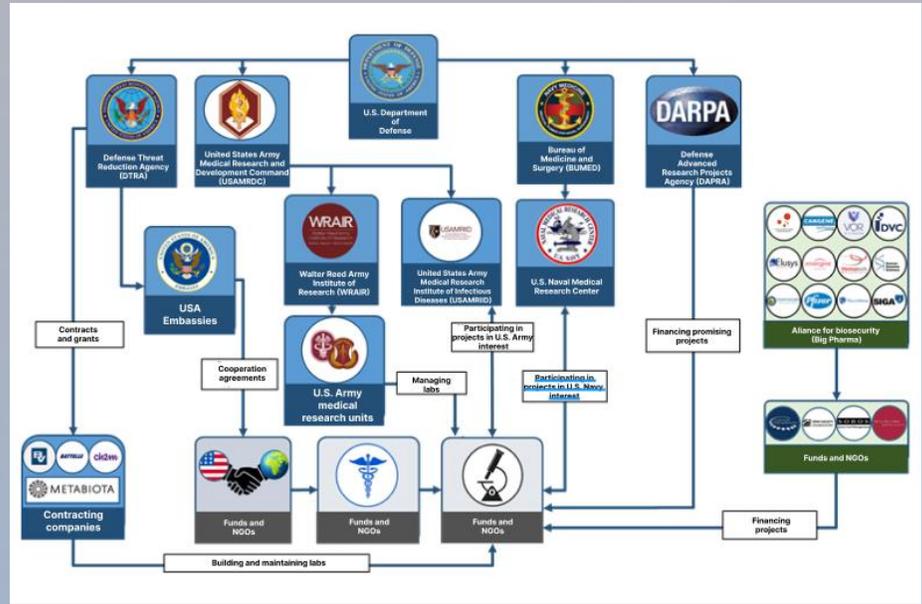
## Objectives stated by U.S. biological programme

1. Monitoring of the biological situation
2. Assistance to developing countries
3. Development of means and methods of biological protection

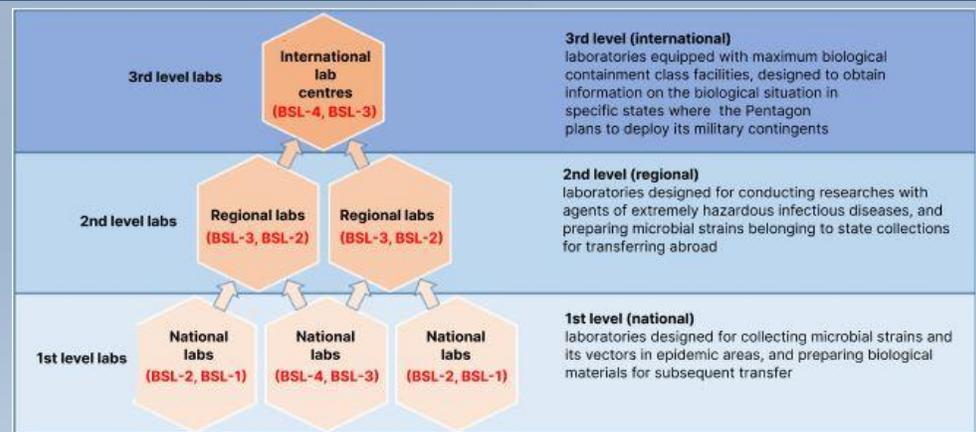
## Signs of the USA conducting research bypassing the obligations under the BTWC

INDIRECT	DIRECT (IN VIOLATION OF THE BTWC)
1. Construction of military laboratories around the borders of geopolitical opponents	1. Violation of article IV of the BTWC
2. Collection of strains of particularly dangerous microorganisms endemic to certain territories	2. Failure to take the necessary measures at the national level to prohibit and prevent the development, production, accumulation, acquisition or preservation of biological weapons
3. Increasing the number of works on the artificial creation of dangerous microorganisms with specified properties	3. Conclusion of agreements allowing the work to be carried out in violation of Article I of the BTWC
4. Participation of the military department in the financing of research projects	4. Preservation of measures in national legislation that allow the development of biological weapons
5. Increased funding of biological programs (including in the field of synthetic biology, paleogenomics, etc.)	5. Patenting of technical means of delivery and use of biological weapons
6. Human testing of toxic drugs	
7. Collection of biological material of "mono-ethnoses"	

## Global biothreat prevention, response, and neutralisation architecture for the USA



## Division of US laboratories under construction and recomposed into levels of functionality



# Failure of US regulatory authorities to enforce control over biological research

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The National Institutes of Health is the U.S. Department of Health agency responsible for health and medical research. It consists of 27 institutes and research centres



EcoHealth Alliance is an American non-governmental organisation dedicated to research aimed at preventing pandemics and promoting environmental conservation in hotspots around the world



## US Department of Health Office of Inspector General Audit Report

Department of Health and Human Services  
**OFFICE OF INSPECTOR GENERAL**

**THE NATIONAL INSTITUTES OF HEALTH AND ECOHEALTH ALLIANCE DID NOT EFFECTIVELY MONITOR AWARDS AND SUBAWARDS, RESULTING IN MISSED OPPORTUNITIES TO OVERSEE RESEARCH AND OTHER DEFICIENCIES**

*Inquiries about this report may be addressed to the Office of Public Affairs at [Public.Affairs@oig.hhs.gov](mailto:Public.Affairs@oig.hhs.gov).*

Christi A. Grimm  
 Inspector General

January 2023  
 A-05-21-00025

**Report in Brief**  
 Date: January 2023  
 Report No. A-05-21-00025

**Why OIG Did This Audit**  
 OIG initiated this audit because of concerns regarding the National Institutes of Health's (NIH's) grant awards to EcoHealth Alliance (EcoHealth), NIH's monitoring of EcoHealth, and EcoHealth's use of grant funds, including its monitoring of subawards to a foreign entity.

**Our objectives were to determine whether NIH monitored grants to EcoHealth in accordance with Federal requirements, and whether EcoHealth used and managed its NIH grant funds in accordance with Federal requirements.**

**How OIG Did This Audit**  
 We obtained a list of all NIH awards to EcoHealth and all subawards made by EcoHealth during Federal fiscal years 2014 through 2021 (audit period). Our audit covered three NIH awards to EcoHealth totaling approximately \$8.0 million, which included \$1.8 million of EcoHealth's subawards to eight subrecipients, including the Wuhan Institute of Virology (WIV).

**Our audit methodology was designed to address NIH and EcoHealth's policies, procedures, and internal controls in place to monitor, manage, and use grant funds. We selected and reviewed 150 EcoHealth transactions totaling \$2,578,567 across the 3 NIH awards comprised of different types of cost categories for allowability.**

**The National Institutes of Health and EcoHealth Alliance Did Not Effectively Monitor Awards and Subawards, Resulting in Missed Opportunities to Oversee Research and Other Deficiencies**

**What OIG Found**  
 Despite identifying potential risks associated with research being performed under the EcoHealth awards, we found that NIH did not effectively monitor or take timely action to address EcoHealth's compliance with some requirements. Although NIH and EcoHealth had established monitoring procedures, we found deficiencies in complying with those procedures limited NIH and EcoHealth's ability to effectively monitor Federal grant awards and subawards to understand the nature of the research conducted, identify potential problem areas, and take corrective action. Using its discretion, NIH did not refer the research to HHS for an outside review for enhanced potential pandemic pathogens (ePPPs) because it determined the research did not involve and was not reasonably anticipated to create, use, or transfer an ePPP. However, NIH added a special term and condition in EcoHealth's awards and provided limited guidance on how EcoHealth should comply with that requirement. We found that NIH was only able to conclude that research resulted in virus growth that met specified benchmarks based on a late progress report from EcoHealth that NIH failed to follow up on until nearly 2 years after its due date. Based on these findings, we conclude that NIH missed opportunities to more effectively monitor research. With improved oversight, NIH may have been able to take more timely corrective actions to mitigate the inherent risks associated with this type of research.

We identified several other deficiencies in the oversight of the awards. Some of these deficiencies include: NIH's improper termination of a grant; EcoHealth's inability to obtain scientific documentation from WIV; and EcoHealth's improper use of grant funds, resulting in \$89,171 in unallowable costs.

OIG oversight work has continually demonstrated that grant-awarding agencies' oversight of subrecipients, whether domestic or foreign, is challenging. The shortcomings we identified related to NIH's oversight of EcoHealth demonstrate continued problems. Compounding these longstanding challenges are risks that may limit effective oversight of foreign subrecipients, which often depends on cooperation between the recipient and subrecipient, and the countries in which the research is performed. Although WIV cooperated with EcoHealth's monitoring for several years, WIV's lack of cooperation following the COVID-19 outbreak limited EcoHealth's ability to monitor its subrecipient. NIH should assess how it can best mitigate these issues and ensure that it can oversee the use of NIH funds by foreign recipients and subrecipients.

The full report can be found at <https://oig.hhs.gov/oas/reports/region5/52100025.asp>.

**US Department of Health Office of Inspector General Audit Report on the National Institutes of Health and EcoHealth Alliance (January 2023)**

**'...NIH did not effectively monitor or take timely action to address EcoHealth's compliance with some requirements. ...anticipated to create, use, or transfer an enhanced potential pandemic pathogens...'**

**Office of Inspector General**  
<https://oig.hhs.gov>

The mission of the Office of Inspector General (OIG), as mandated by Public Law 95-452, as amended, is to protect the integrity of the Department of Health and Human Services (HHS) programs, as well as the health and welfare of beneficiaries served by those programs. This statutory mission is carried out through a nationwide network of audits, investigations, and inspections conducted by the following operating components:

**Office of Audit Services**  
 The Office of Audit Services (OAS) provides auditing services for HHS, either by conducting audits with its own audit resources or by overseeing audit work done by others. Audits examine the performance of HHS programs and/or its grantees and contractors in carrying out their respective responsibilities and are intended to provide independent assessments of HHS programs and operations. These audits help reduce waste, abuse, and mismanagement and promote economy and efficiency throughout HHS.

**Office of Evaluation and Inspections**  
 The Office of Evaluation and Inspections (OEI) conducts national evaluations to provide HHS, Congress, and the public with timely, useful, and reliable information on significant issues. These evaluations focus on preventing fraud, waste, or abuse and promoting economy, efficiency, and effectiveness of operational programs. To promote impact, OEI reports also present practical recommendations for improving program operations.

**Office of Investigations**  
 The Office of Investigations (OI) conducts criminal, civil, and administrative investigations of fraud and mismanagement related to HHS programs, operations, and beneficiaries. With investigators working in all 50 States and the District of Columbia, OI utilizes its resources by actively coordinating with the Department of Justice and other Federal, State, and local law enforcement authorities. The investigative efforts of OI often lead to criminal convictions, administrative sanctions, and/or civil recovery penalties.

**Office of Counsel to the Inspector General**  
 The Office of Counsel to the Inspector General (OCIG) provides general legal services to OIG, rendering advice and opinions on HHS programs and operations and providing all legal support for OIG's internal operations. OCIG represents OIG in all civil and administrative fraud and abuse cases involving HHS programs, including False Claims Act, program exclusion, and civil monetary penalty cases. In connection with these cases, OCIG also negotiates and executes corporate integrity agreements. OCIG renders advisory opinions, issues compliance program guidance, publishes fraud alerts, and provides other guidance to the health care industry concerning the anti-kickback statute and other OIG enforcement authorities.

**Appendix I: National Institutes of Health Comments**

DATE: December 30, 2022  
 TO: Julia T. Hagopian, Principal Deputy Inspector General  
 FROM: Acting Principal Deputy Director, National Institutes of Health  
 SUBJECT: NIH Comments on Draft Report, "The National Institutes of Health and EcoHealth Alliance Did Not Effectively Monitor Awards and Subawards, Resulting in Missed Opportunities to Oversee Research and Other Deficiencies" (A-05-21-00025)

Identified the National Institutes of Health (NIH) comments on the draft Office of Inspector General (OIG) report, "The National Institutes of Health and EcoHealth Alliance Did Not Effectively Monitor Awards and Subawards, Resulting in Missed Opportunities to Oversee Research and Other Deficiencies" (A-05-21-00025).

NIH appreciates the review conducted by OIG and the opportunity to provide the clarifications in this draft report. If you have questions or comments, please contact Marlene Niles in the Office of Management Information at 301-402-8482.

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 Tam A. Roberts, Ph.D.

**Appendix II: EcoHealth Comments**

20 December 2022

Shari L. Fisher  
 Deputy Inspector General for Audit Services  
 Office of Audit Services, Region V  
 233 North Michigan, Suite 1800  
 Chicago, IL 60611

We Report Number: A-05-21-00025

Dear Ms. Fisher,

Thank you for providing a draft of the report entitled "The National Institutes of Health and EcoHealth Alliance Did Not Effectively Monitor Awards and Subawards, Resulting in Missed Opportunities to Oversee Research and Other Deficiencies." This letter represents an overview of our responses to the findings and recommendations. Detailed comments, kept in specific issues, are contained in the attached Appendix I.

This OIG audit report covers National Institutes of Health (NIH) and EcoHealth Alliance (EHA) compliance with Federal requirements to ensure proper monitoring and use of grant funds for three NIH awards to EHA totaling approximately \$8.0 million for the period covering FY2014 through FY2021. The OIG audit objectives were to determine whether: (1) NIH monitoring grants to EHA in accordance with Federal requirements; and (2) whether EHA used and managed its NIH grant funds in accordance with Federal requirements. EHA welcomes the OIG oversight and fully anticipates full and appropriate engagement with this audit.

We note that the OIG did not use third-party data sources with EHA to grant oversight and compliance, summarizing its findings as follows: "EcoHealth had steps in place to conduct risk assessments of its subrecipients, and also had established procedures to conduct routine monitoring of its subrecipients." EHA accepts OIG's recommendations in how to ensure that subrecipients are compliant with reporting requirements. We will ensure EHA had adequate oversight monitoring and reporting, and then to comply better with certain public disclosure requirements associated with reporting subrecipients. We will ensure EHA had adequate oversight procedures addressed by the OIG during the time period covered by the audit, or implemented from and we were notified of a finding by the OIG audit team.

We note the additional OIG audit team finding that EHA "did not always use its grant funds in accordance with Federal requirements, resulting in \$89,171 in unallowable costs." This



# Analysis of effectiveness of U.S. biosecurity interventions

## National Science Advisory Board for Biosecurity (NSABB)

National Science Advisory Board for Biosecurity is a federal advisory committee that reviews biosecurity and dual-use research at the request of the US government



Gerald W. Parker

chairman, national scientific advisory board for biosecurity

Associate Dean of Global One Health in the College of Veterinary Medicine and Biomedical Sciences, Director of the Global One Health campus at Texas A&M University, Director of the Scowcroft Institute and Biodefense Policy Program at the Scowcroft Institute for International Affairs in the Bush School of Government and Public Service. He is a member of several advisory boards.

He has more than 26 years of service in leading military medical research programmes and organisations. He is a former commander of the US Army Medical Research Institute for Infectious Diseases. He has held senior positions in the Department of Homeland Security, the Department of Health and Human Services (HHS) and the Department of Defense (DOD), including first deputy assistant secretary of state for preparedness and response in HHS and deputy assistant secretary of defense for chemical and biological defense in DOD.

## National Science Advisory Board for Biosecurity (27 January 2023)

**PROPOSED BIOSECURITY OVERSIGHT FRAMEWORK FOR THE FUTURE OF SCIENCE**

*Draft Findings & Recommendations of the National Science Advisory Board for Biosecurity Working Groups*

January 2023

**Executive Summary**  
Life sciences research involving pathogens serves a critical role in pandemic preparedness and in ensuring that the United States and the global community are prepared to rapidly detect, respond to, and recover from biological threats, whether naturally occurring, accidental, or deliberate in origin. However, there are biosecurity and bioethics risks associated with undertaking research involving pathogens which include the possibility of laboratory accidents and the deliberate misuse of the information or products generated.

The United States (U.S.) has established a biosecurity, biocontainment, and biosecurity oversight system designed to protect laboratory workers, public health, agriculture, the environment, and national security. Periodic reassessment of our biosecurity and biosecurity oversight frameworks helps to ensure that they effectively address existing and emerging safety and security concerns while continuing to support scientific progress and innovation. To help inform such efforts, in February 2022 the U.S. Government (USG) charged the NSABB with evaluating and providing recommendations on the effectiveness of two major U.S. biosecurity policy frameworks governing:

- Research with enhanced potential pandemic pathogens (ePPPs), including the White House Office of Science and Technology Policy (OSTP) Recommended Policy Guidance for the Departmental Development of Review Mechanisms for Potential Pandemic Pathogen Care and Oversight (P3CO), and the Department of Health and Human Services (HHS) Framework for Guiding Funding Decisions about Proposed Research Involving Enhanced Potential Pandemic Pathogens<sup>1</sup>; and
- Dual Use Research of Concern (DURC), including the USG Policy for Oversight of Life Sciences DURC<sup>2</sup> and the USG Policy for Institutional Oversight of Life Sciences DURC<sup>3</sup>.

In developing the findings and recommendations presented in this report, the two NSABB Working Groups tasked with evaluating the P3CO and DURC oversight frameworks and considered relevant policies and guidance, and consulted with subject matter experts in pathogen research, research administration and oversight, biosecurity and biosafety, bioethics, and national security, among others. From the USG, federal funding agencies, academic institutions, and scientific and professional societies, the Working Groups also considered public comments.

NSABB Working Group Findings on P3CO (Phase 1) and DURC (Phase 2) Oversight Frameworks

**Phase 1 Findings**

**Finding 1.** The current definitions of a PPP and enhanced PPP (ePPP) are too narrow. Overemphasis on pathogens that are both likely "highly" transmissible and likely "highly" virulent

**Phase 2 Findings**

**Finding 2.** The current definitions of a PPP and enhanced PPP (ePPP) are too narrow. Overemphasis on pathogens that are both likely "highly" transmissible and likely "highly" virulent

**Recommendation 1.** Amend USG P3CO policy to clarify that federal department-level review is required for research that is reasonably anticipated to enhance the transmissibility and/or virulence of any pathogen (i.e., PPPs and non-PPPs) if the resulting pathogen is reasonably anticipated to exhibit the following characteristics that meet the definition of a PPP:

- Likely moderately or highly transmissible and likely capable of wide and uncontrollable spread in human populations; and/or
- Likely moderately or highly virulent and likely to cause significant morbidity and/or mortality in humans.

And, in addition,

- Likely to pose a severe threat to public health, the capacity of public health systems to function, or national security.

**Recommendation 2.** Amend Section 11.3 and 11.4 of the OSTP P3CO Policy Guidance to be consistent with the Bellmont Report. For example, amend Section 11.3 to: "There are no feasible, scientifically sound alternative ways of obtaining the benefits sought in the research in a manner that poses less risk to the public. While the risk of not necessary to answer an important scientific question have been eliminated and an overall assessment of remaining risks finds that they are justified by the potential benefits to society from the research."

**Recommendation 3.** Amend Section 11.4 of the OSTP P3CO Policy Guidance to be consistent with the Bellmont Report. For example, amend Section 11.4 to: "There are no feasible, scientifically sound alternative ways of obtaining the benefits sought in the research in a manner that poses less risk to the public. While the risk of not necessary to answer an important scientific question have been eliminated and an overall assessment of remaining risks finds that they are justified by the potential benefits to society from the research."

**Recommendation 4.** Amend Section 11.3 and 11.4 of the OSTP P3CO Policy Guidance to be consistent with the Bellmont Report. For example, amend Section 11.3 to: "There are no feasible, scientifically sound alternative ways of obtaining the benefits sought in the research in a manner that poses less risk to the public. While the risk of not necessary to answer an important scientific question have been eliminated and an overall assessment of remaining risks finds that they are justified by the potential benefits to society from the research."

**Recommendation 5.** The USG must take additional steps to increase transparency in the review process at the federal and local levels. This would in part be accomplished by development and release of an implementation directive, plans, and guidance (see recommendation 4), but the USG must also share a summary of key determinative factors that inform P3CO research funding decisions based on results of the assessment process.

**Recommendation 6.** Amend Section 11.4 of the OSTP P3CO Policy Guidance to be consistent with the Bellmont Report. For example, amend Section 11.4 to: "There are no feasible, scientifically sound alternative ways of obtaining the benefits sought in the research in a manner that poses less risk to the public. While the risk of not necessary to answer an important scientific question have been eliminated and an overall assessment of remaining risks finds that they are justified by the potential benefits to society from the research."

**Recommendation 7.** The conduct of ePPP research at international institutions receiving USG support for life sciences research, either directly or indirectly (e.g., via subawards or contracts), must be subject to review, evaluation, and ongoing oversight procedures that are equivalent to domestic U.S. policies and procedures. This must include U.S. review and oversight of safety and security measures, risk management practices, and assessment of applicable policies and procedures for comparability to relevant U.S. policies and procedures.

**Commitments to international engagement and efforts to harmonize and strengthen international norms, standards, education, training related to the biosafety and biosecurity oversight of ePPP research must be renewed, leveraging existing bodies and fora (e.g., the World Health Organization, the Global Health Security Agenda, the Biological Weapons Convention, or relevant future treaties and other multilateral agreements).**

**Phase 2 Recommendations**

**Recommendation 8.**

**Recommendation 8.1** Continue to facilitate sharing of experiences and best practices regarding DURC policy implementation.

**Recommendation 8.2** Annually update regarding the

**Recommendation 9.**

**Recommendation 10.**

**Recommendation 11.**

**Recommendation 12.**

**Recommendation 13.**

**Recommendation 14.**

**Recommendation 15.**

**Recommendation 16.**

**Recommendation 17.**

**Recommendation 18.**

**Recommendation 19.**

**Recommendation 20.**

**'... two major U.S. biosecurity policy frameworks governing: - research with enhanced potential pandemic pathogens (ePPPs)...; - dual use research of concern (DURC)...'**

**'...procedures must be better harmonized..., and adequate technical and financial assistance provided...'**

**'...must take additional steps to increase transparency in the review process at the federal and local levels...'**

**'... Commitments to international engagement and efforts to harmonize and strengthen international norms, standards, education, training related to the biosafety and biosecurity oversight of ePPP research must be renewed, leveraging existing bodies and fora (e.g., WHO, BWC etc.)'**



# International reaction to the revelation of U.S. bioweapons programmes

## Makabayan Party Initiative to Investigate U.S. Activities in the Philippines

INQUIRER.NET

### House urged to scrutinize US-funded lab project in PH



The Makabayan lawmakers also cited reports of other laboratories and research facilities in the Philippines funded by EcoHealth Alliance, a foreign nonprofit organization that received millions of dollars in grants from the US Agency for International Development (USAID).

There are three EcoHealth Alliance projects currently being undertaken in the Philippines, including the Predict project that aims to “identify new emerging infectious diseases that could become a threat to human health,” and the Emerging Infectious Disease Repository (EIDR), which seeks to “unravel the origins of emerging infectious disease events.”

“Even if the work of EcoHealth Alliance truly relates to pursuing global health, it is unmistakable that one of the overarching objectives of this USAID grant is to advance US foreign policy,” they noted, adding that EcoHealth Alliance also got funding from the DTRA.



Makabayan Philippine party



### Investigate foreign-funded biolab – Makabayan

MANILA, Philippines – The House Makabayan bloc has expressed concerns over the reported construction of an animal disease diagnostic laboratory in Tarlac City with funding from the United States’ Defense Threat Reduction Agency (US-DTRA).

In a joint resolution, Reps. France Castro of ACT Teachers, Arlene Brosas of Gabriela and Raoul Manuel of Kabataan asked House leaders to investigate foreign-funded bio-laboratory projects in the Philippines, including the US-DTRA.

The party-list lawmakers said the \$643,000-facility was turned over to the Department of Agriculture in September 2020 to supposedly boost the country’s biosecurity efforts against trans-boundary animal diseases.



### Embassy says US-supported biolabs fully run by DA



THE UNITED States Embassy in Manila allayed concerns raised by opposition lawmakers on US-funded biolaboratories in the Philippines, saying the American government is only providing support to the agricultural department, which operates these facilities.

John Groch, acting spokesperson of the embassy, said the US government, through the United States Defense Threat Reduction Agency (DTRA), extended funding and technical training to the Department of Agriculture (DA).

“DTRA has built, equipped, and trained Philippine government personnel to run laboratories that detect, monitor, and prevent the spread of animal diseases, but the laboratories are run by the Department of Agriculture,” he said in a Viber message late Tuesday.

## Naval Medical Research Unit Two (NAMRU-2)

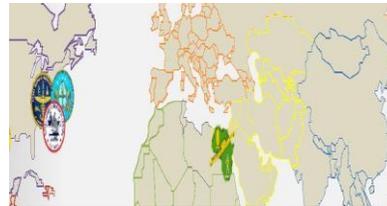


NAMRU-2 is a U.S. Navy biomedical research laboratory officially established to study infectious diseases of potential military significance in Asia.

NAMRU-2 had its main laboratory and headquarters in Jakarta from 1991 to 2010, when the Indonesian government requested that it be closed.

A branch in Phnom Penh, Cambodia, was established in 2002 (operating as the main laboratory in the region since 2010).

A branch office in Singapore was established in 2007.



### Naval Medical Research – Asia Naval Medical Research Unit TWO



Host(s): Singapore: Ministry of Defense; Cambodia: Ministry of Health

#### Research Expertise in

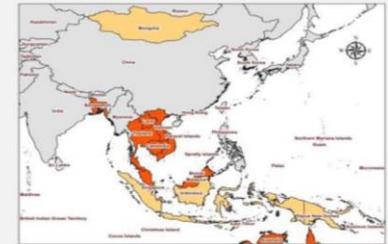
- Biosurveillance of infectious diseases
- Pathogen characterization/bioinformatics
- Drug resistant malaria therapeutics

#### Recent accomplishments

- Established Middle East Respiratory Syndrome-Corona Virus (MERS-CoV) surveillance in SE Asia
- Supports Global Health Security through laboratory upgrade with Cambodia Ministry of Health and Royal Cambodian Armed Forces
- Evaluation of vector control and abatement devices in Laos
- Conducts SMS-based disease surveillance in Cambodia to provide real-time disease trend data
- Conducting Therapeutic treatment efficacy studies to reduce malaria burden in SE Asia



NMRC-Asia HQ in Singapore. NAMRU-2’s laboratory in Phnom Penh, Cambodia



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NAMRU-2 is staffed by four members of the US Navy and more than 90 Cambodian scientists, doctors, technologists, and specialists.

NAMRU-2 collects and characterises more than 5,000 samples a year and quickly disseminates the information to partners in Cambodia and the U.S. government.



Completion of Lab training at NAMRU-2 for military personnel



# U.S. military-biological research figures in Ukraine



**Kenneth Myers**  
DTRA Director  
(2009–2016)



**Robert Pope**  
DTRA Director  
(2017–2020)



**Rhys M. Williams**  
DTRA Director  
(since 2020)



**Joanna Wintrol**  
DTRA project lead



**Steven L. Edwards**  
Black&Veatch  
CEO



**Lance Lippencott**  
Black&Veatch  
program director



**David Mustra**  
Black&Veatch  
manager



**Nita Madhav**  
Metabiota  
CEO



**Mary Guttieri**  
Metabiota  
Vice President



**Scott Thornton**  
Metabiota  
Senior Microbiologist



**Anna Gibson**  
Chief Scientific  
Officer (Metabiota)



**Lewis Von Thaar**  
Battelle President, CEO



**Jeffrey Wadsworth**  
Battelle former CEO



**David Garcia**  
officer of Military Medical  
Center (Battelle)



**Anthony McQueen**  
Commanding General,  
U.S. Army Medical  
Research and  
Development  
Command and Fort  
Detrick



**Thomas R. Frieden**  
ex-Director of the  
Centers for Disease  
Control and Prevention  
(CDC)



**Francis S. Collins**  
NIH ex-director



**Karen Saylor**  
Labyrinth Global  
Health Inc. CEO and  
Co-Founder



**Mikael Dolsten**  
Chief Scientific Officer  
and President,  
Worldwide Research,  
Development and  
Medical of Pfizer Inc



**Colleen Jonsson**  
lead researcher at the  
University of Tennessee  
Science Centre



**Tara O'Toole**  
In-Q-Tel  
Executive Vice  
President



**Hunter Biden**  
headed Rosemont  
Seneca Technology  
Partners, a leading  
financial backer of  
Metabiota



**Ashley Lucas**  
public health advisor  
at Loyal Source  
Government  
Services



**Eric Bortz**  
virologist, Associate  
Professor, University  
of Alaska Anchorage



**Riza Ikranbegijn**  
WHO Ukraine  
Laboratory Officer



**Curtis Bjelajac**  
Executive Director at  
Science and  
Technology Center  
in Ukraine  
(since 2014)



**Andrew Hood**  
Executive Director at  
Science and  
Technology Center  
in Ukraine  
(2004–2012)



**Eddie Meyer**  
Board Chairman,  
European Union's  
Science and  
Technology Center  
in Ukraine



**Natalie Pauwels**  
Board Member,  
European Union's  
Science and  
Technology Center  
in Ukraine



**Sergej Morgun**

Head of the Sanitary and  
Epidemiological Directorate of  
the AFU Medical Forces  
Command.

He organized interaction  
between the AFU and DTRA  
within the framework of military  
biological research. Personally  
supervised UP-8 project,  
coronavirus and other  
pathogens research.

Address of residence: ■  
Borovikovskiy Blvd., Kiev



**Sergey Litovka**

Head of the Central Sanitary and  
Epidemiological Department of  
the AFU.

He directly managed the UP-8  
project, organized selection of  
servicemen for biomaterials,  
prepared reporting materials for  
DTRA, gave orders for access of  
U.S. biologists to the facilities of  
Ukrainian Ministry of Defense

Address of residence: ■  
Sechevoy Lane, Dnepr.



**Vladimir Kurpita**

Head of the Public Health  
Centre of the Ministry of Health  
of Ukraine.

He provided general supervision  
and guidance over the  
interaction between Ukrainian  
specialists and DTRA. He  
participated in project No. 68727  
EN 02761868.

He also supervised export of  
1,000 blood serum samples from  
different regions of Ukraine.  
Address of residence: apt. ■  
■ Simirenka Str., Kiev



**Irina Demchishina**

Head of the virology reference  
laboratory of the Public Health  
Centre of the Ministry of Health of  
Ukraine.

Maintained personal contacts with  
representatives of Black&Veatch,  
Metabiota, CH2M Hill, STCU. She  
personally organized transfer of  
biomaterials abroad, supervised  
implementation of UP and TAP  
series projects. Address of  
residence: apt. ■, ■  
Antonovycha Str., Kiev



**Denis Muzyka**

Deputy Director for International  
Cooperation at the Institute of  
Experimental and Clinical  
Veterinary Medicine (IECVM)  
and Head of the Laboratory of  
Viral Diseases of Poultry at  
IECVM.

Performed the bulk of research  
in the UP-4 project, participated  
in the P-160 project.

Address of residence: apt. ■, ■  
Yerevanskaya Str., Kiev



**Larisa Pekarskaya**

Black&Veatch Finance and Tax  
Manager.

She worked in international  
technical assistance  
management in Ukraine (DTRA,  
USAID, Millennium Challenge  
Corporation), dealt with  
financing of DTRA projects in  
Ukraine, as well as  
Black&Veatch related  
paperwork.

Address of residence: apt. ■  
■ Kikvidze Str. Kiev; apt. ■  
■, Balzaka Str., Kiev



**Natalia Mikhailovskaya**

Manager at Metabiota for  
research projects and  
programme implementation in  
the former Soviet Union,  
consultant at Labyrinth Global  
Health, Inc. Assisted in the  
implementation of the DTRA  
bioprogramme "Threat  
Reduction Networks Support"  
TD-04-03-01. Collaborated with  
D. Muzyka on implementation of  
UP-4, UP-9, UP-10 projects and  
preparation of final reports.

Address of residence: apt. ■, ■  
Yerevanskaya Str., Kiev



**Igor Lozinsky**

Head of the Laboratory of  
Natural Focal Infections of the  
LNMU Research Institute of  
Epidemiology and Hygiene. He  
supervised the process of  
modernisation of the laboratory  
for military biology research,  
supervised the work on the UP-8  
project. As part of the project, he  
was the leading specialist in  
biomaterial analysis and  
participated in data analysis.

Address of residence: ■  
Progulochna Street, Lviv

# U.S. attempts to continue research at biological laboratories in Ukraine

## Kirby's statement on ending US biolaboratories in Ukraine



31 января, 22:49, обновлено 31 января, 23:05

## В Белом доме считают необоснованными заявления РФ о работе биологических лабораторий США на Украине

TACC

Координатор по стратегическим коммуникациям в СНБ Белого дома Джон Кирби признал, что США действительно "проводили с украинцами некоторые исследования по предотвращению пандемии", но добавил, что все эти исследовательские центры были "покинута и безопасно деактивированы" до начала СВО

## Request from CH2M Hill, Inc. for information on the implementation of the concept of action agreement (ConOps) (6 December 2022)



Pavlovsk Business Center, 20 Velyka Zolotornitska Street, Kyiv, Ukraine 01001

6 December 2022 Oniting № 2022-12-001

**Subject:** Request to provide information on Concept of Operations (ConOps) agreements implementation

**Reference:** The international technical assistance project "Countering Especially Dangerous Pathogens Threats in Ukraine"

Dear participant: In terms of the international assistance project CH2M Hill, Inc. (CH2M) would like to extend our sincere respect and inform you of the following:

In August 2020, the U.S. Department of Defense (DoD) and the Government of Ukraine (GoUA) signed the Biological Threat Reduction Implementing Agreement. This document shaped a mutually beneficial partnership between these two nations with the end goal of preventing proliferation of technology, pathogens, and expertise that could be used in the development of biological weapons.

- GoUA consolidates pathogen collections and reduces the need for maintaining live Especially Dangerous Pathogens (EDPs).
- GoUA implements and sustains a biorisk management (BRM) system in alignment with international guidelines and best practices. GoUA implements and sustains EDP surveillance capacities and capabilities.
- GoUA leverages regional and international partnerships to support professional development, improve data sharing and transparency, and promote bioethics.

To move forward further successful Project implementation and development, CH2M would like to collect updates from each of the EAs on progress that is being made towards ConOps program objectives, implementation plans, BTRP End States, and other engagement documents within the Project scope. CH2M will schedule meetings with each of the EAs to discuss your progress on these activities and determine how we can best assist with these activities. We would then like to have the EAs present on the progress they are making toward the ConOps goals at the next Joint Working Group (JWG) meeting on 25 January 2023.

Page 1 of 4 WS TB MS II

In this connection, you are kindly requested to provide the above information and submit it not later than 15 December 2022 to CH2M Travel/Administration Officer, Mrs. Maria Spasibo, at [travel.admin@ch2m.com](mailto:travel.admin@ch2m.com). This information is essential for further organization of your meeting and vital for their effectiveness.

Your attention to this matter is greatly appreciated. Our partnership aimed to complete the Project successfully. Should you have any questions or comments, please contact me.

Sincerely,  
*David Smith*

David Erik Smith  
Director of the representative office  
CH2M HILL, INC.  
Kyiv, Ukraine

'...In this connection, you are kindly requested to provide the above information and submit it not later than 15 December 2022 to CH2M Travel/Administration Officer...'

'...abandoned and safely deactivated'

'...To move forward further successful Project implementation and development, CH2M would like to collect updates from each of the EAs on progress that is being made towards ConOps program objectives, implementation plans, BTRP End States, and other engagement documents within the Project scope. CH2M will schedule meetings with each of the EAs to discuss your progress on these activities and determine how we can best assist with these activities. We would then like to have the EAs present on the progress they are making toward the ConOps goals at the next Joint Working Group (JWG) meeting on 25 January 2023...'

## Ukrainian state document on the procedure for accounting, storage, transportation, destruction, import, and export of pathogenic biological agents

Порядок обліку, зберігання, виважу, транспортування, знищення, імпорту в Україну та вивезення з неї всіх штамів мікроорганізмів, токсинів і отруту тваринного та рослинного походження

'Procedure for accounting, storage, transportation, destruction, import and export of micro-organisms, toxins, poisons of animal and plant origin'

4. Роботи з біологічними матеріалами, які небезпечні для людей, тварин, рослин та навколишнього природного середовища, а також їх зберігання здійснюють в умовах, які відповідають нормам біологічної безпеки та згідно вимог ДСТУ 7748:2015 «Безпека праці. Біологічна безпека. Загальні вимоги». Виробничим підприємствам, установам та організаціям, що контролюють готову продукцію, дозволяється мати тільки колекції типових культур, вивчаємих нормативно-технічною документацією.

Міністерство України від 28 серпня 2004 р. № 96 (Офіційний вісник України, 2004 р., № 4, ст. 167; Офіційний вісник України, 2018 р., № 8, ст. 303), здійснюється у порядку, встановленому законодавством у сфері державного експортного контролю

31. Міжнародні передачі товарів, зазначені у листі ML7a Списку товарів військового призначення, наведеного у додатку до Порядку здійснення державного контролю за міжнародними передачами товарів військового призначення, ліцензійного постановою Кабінету Міністрів України від 20 листопада 2003 р. № 1807 (Офіційний вісник України, 2003 р., № 48, ст. 2366), здійснюється у порядку, встановленому законодавством у сфері державного експортного контролю.

VI. Пакування, транспортування біологічних матеріалів

32. Біологічні матеріали та суцільні матеріали в дослітках II та 12 є інфекційно ризикованими та підлягають до небезпечного вантажу, що відповідає критеріям Класу 6 небезпечних вантажів ООН та позначається меткою, наведеною в додатку 10 до цього Порядку. Додатково повинні умовуватися та транспортуватися наступними чином, щоб:

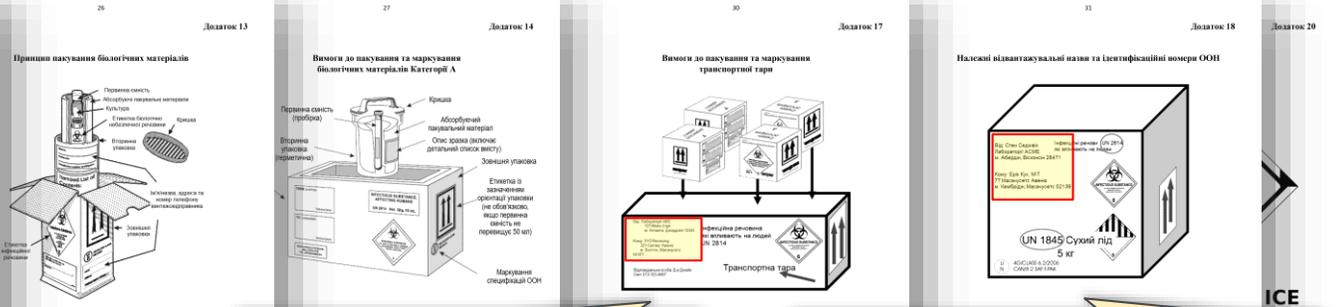
- захистити безпеку кожного, наявний працівник обробки матеріалів та пакування;
- забезпечити збереженість матеріалу в відповідних умовах.

33. Працівники, відповідальні за пакування та транспортування біологічних матеріалів повинні бути підготовлені та мати знання та навички щодо завдань, які вони повинні виконувати.

34. Біологічні матеріали, які підлягають транспортуванню, проходять

'Regulations on the Transport of Dangerous Biological Material by Air...'

36. Для транспортування біологічних матеріалів зазначеним, автобусами і авіаційним транспортом, пакування має відповідати вимогам пакування небезпечних вантажів (додаток 12).



Sender: ABB Laboratory (ABC) in Atlanta, Georgia  
Recipient: EYA (XYZ) in Boston, Massachusetts

Sender: Stan Sedgwick, ACME Laboratory in Aberdeen, Wisconsin..  
Recipient: Eric Cook, MIT in Cambridge, Massachusetts