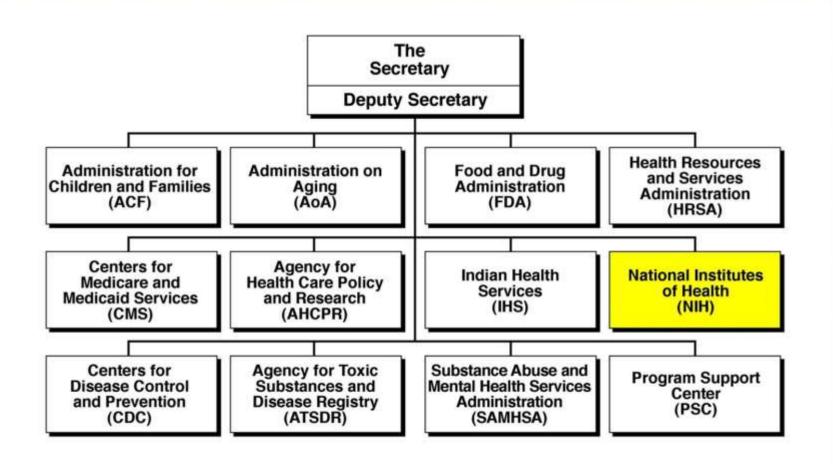
National Institute of Allergy and Infectious Diseases

NIAID Overview and International Portfolio

Joyelle Kalei Dominique, MS, MBA Director, Office of Global Research



U.S. Department of Health and Human Services







U.S. National Institutes of Health Mission



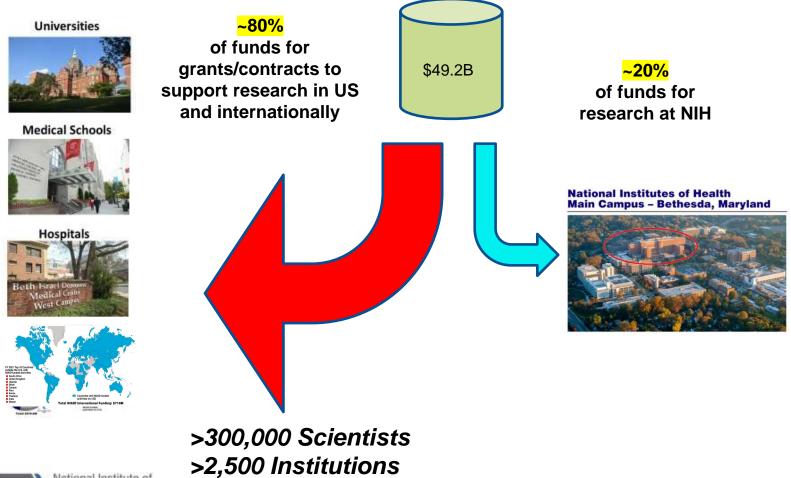
NIH's Mission:

Science in Pursuit of Knowledge to Improve Health





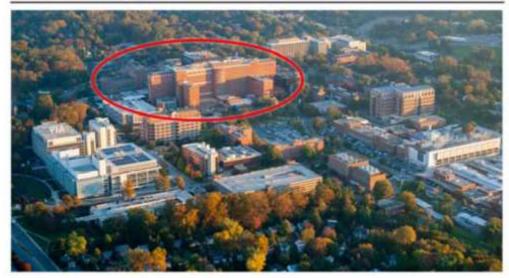
NIH: A Two-Component System



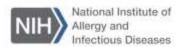


U.S. National Institutes of Health

National Institutes of Health Main Campus – Bethesda, Maryland

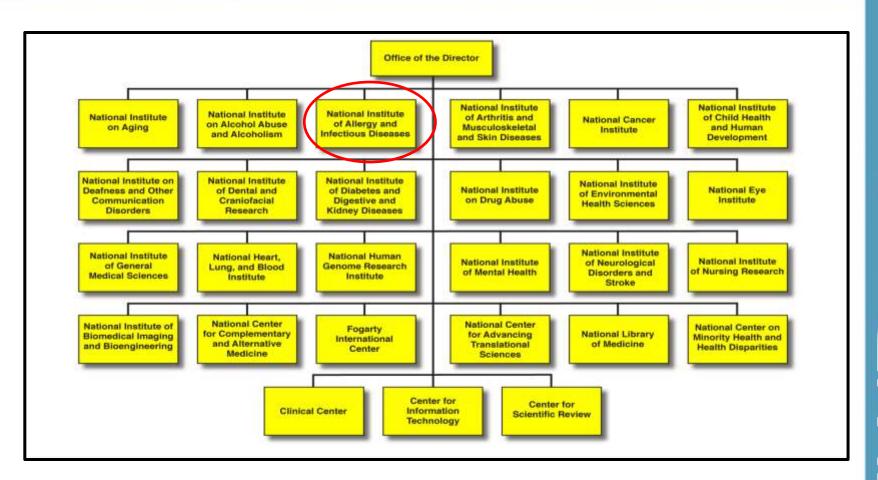


- > 27 Institutes & Centers; 6,000 researchers; 27,000 staff
- > NIH Clinical Center largest research hospital
- ➤ National Library of Medicine largest biomedical library (PubMed)



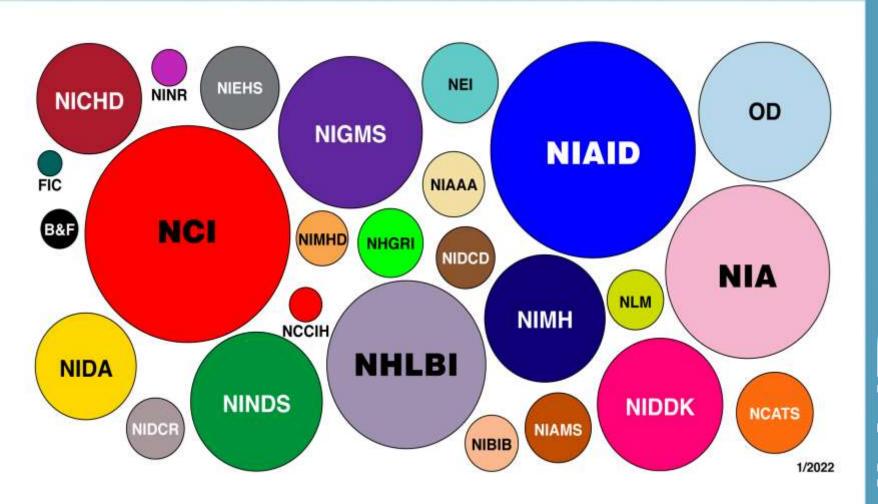


U.S. National Institutes of Health





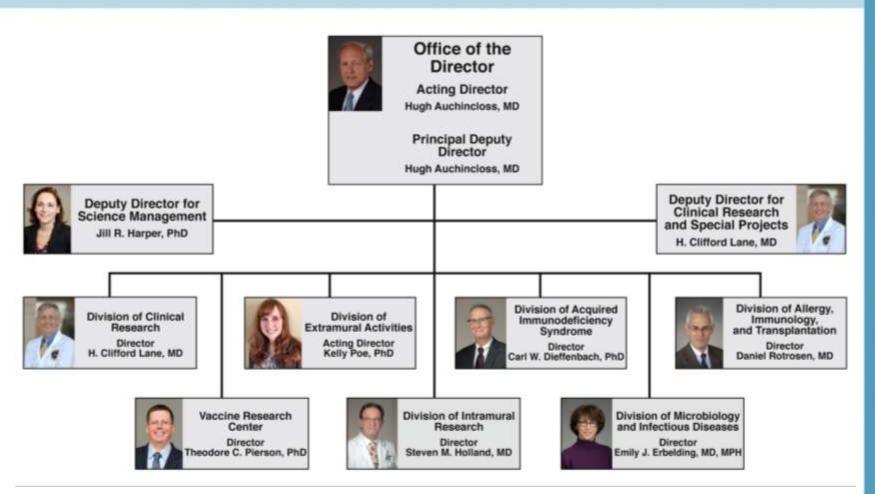
NIH Budget by Institute/Center, FY 2021

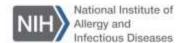






NIAID Organizational Structure

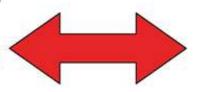






NIAID Research: A Dual Mandate

Maintain and "grow" a robust basic and applied research portfolio in microbiology, infectious diseases, immunology and immune-mediated diseases



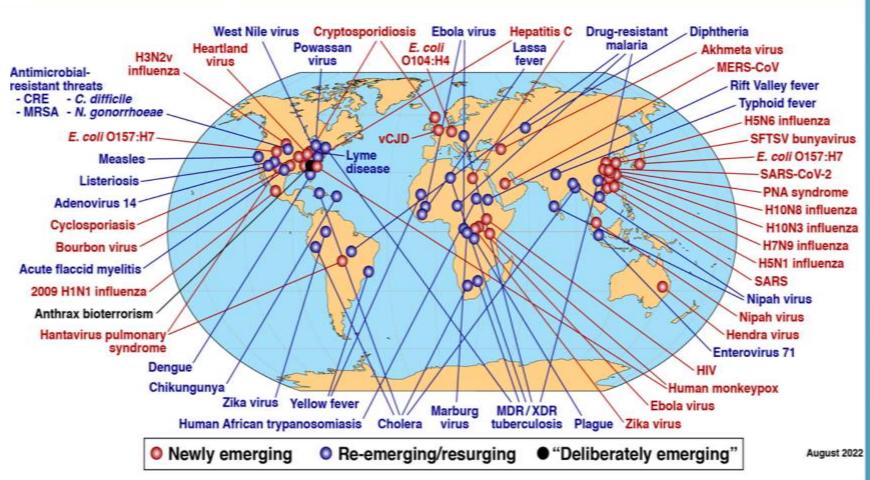
Respond rapidly to new and emerging disease threats

New/Improved Interventions





Global Examples of Emerging and Re-Emerging Infectious Diseases





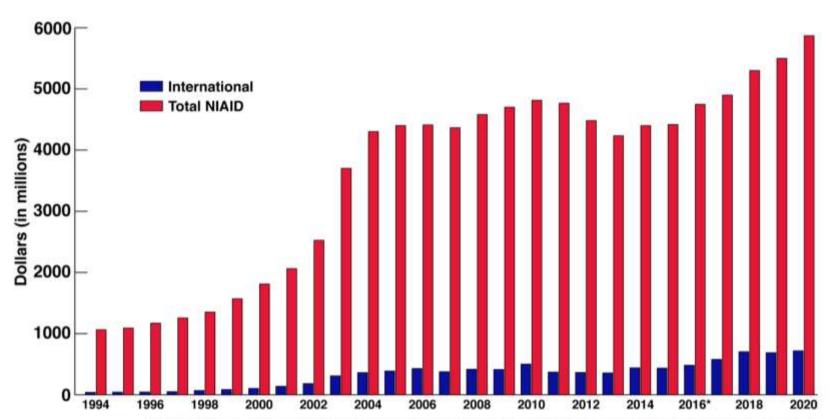
NIAID Strategic Priorities, FY 2023

- Maintain a robust portfolio of basic and translational research in microbiology, infectious diseases and immunology
- Accelerate research on SARS-CoV-2: next-generation vaccines and medical countermeasures
- Develop universal influenza vaccines and enhance effectiveness of seasonal influenza vaccines
- Develop medical countermeasures for emerging and re-emerging infectious diseases
- Develop safe and effective HIV vaccines, novel prevention strategies, optimized treatment methods and new approaches towards a cure
- Develop new strategies for the prevention and treatment of immune-mediated diseases with an emphasis on immune tolerance





NIAID Support for International Research

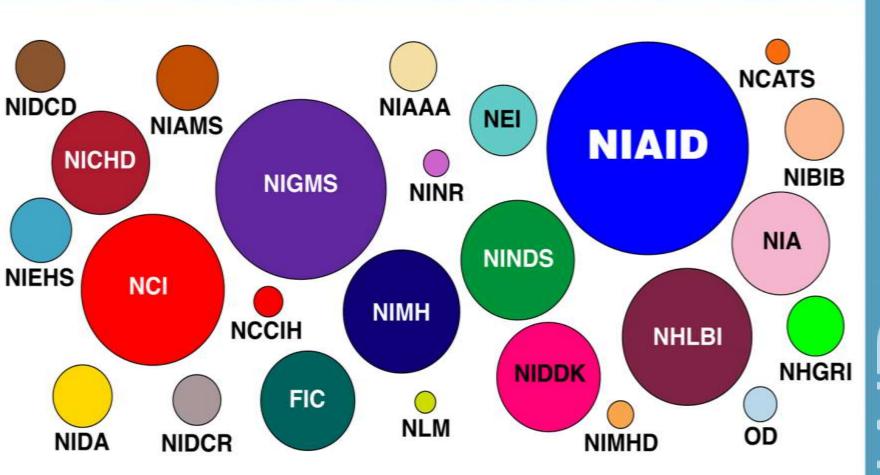


*\$4.749B total NIAID budget in 2016 includes \$34.2M that was transferred from other NIH ICs to fund Zika response



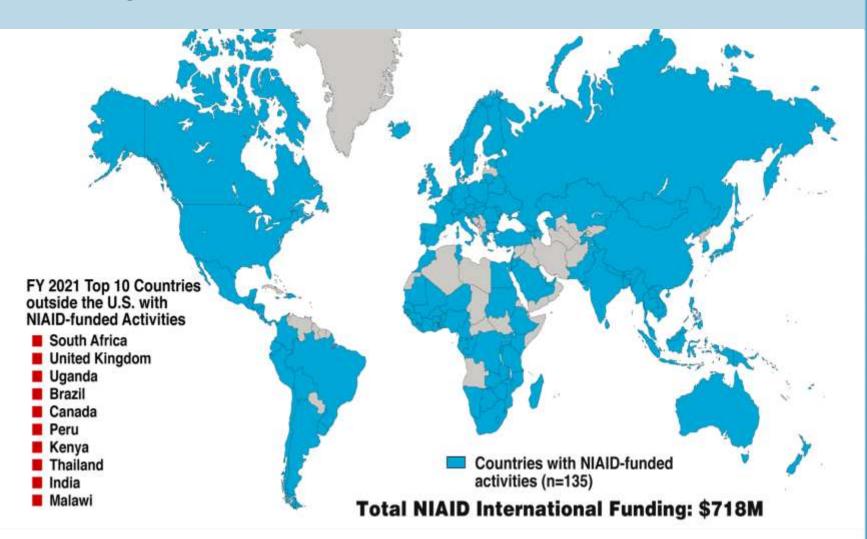


Number of NIH Grants with International Components, FY 2021



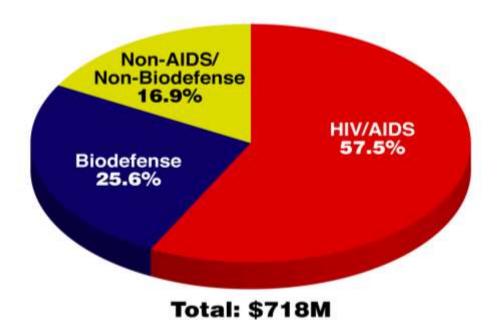


NIAID Global Health Research, FY 2021



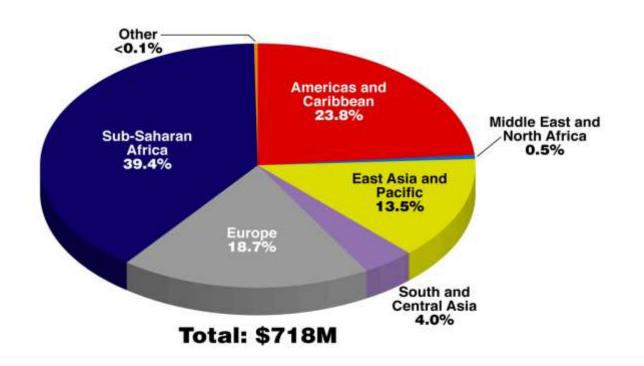


NIAID International Funding by Mission, FY 2021





NIAID International Funding by Region, FY2021





Principles and Strategies for NIAID International Scientific Engagement

Principles:

- Highest scientific quality
- Highest ethical standards
- Shared interest and local relevance
- Mutual benefit in partnership

Strategies:

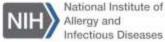
- Local leadership and community support
- Human and lab capacity investment
- Sustained commitment
- Work with other funding organizations





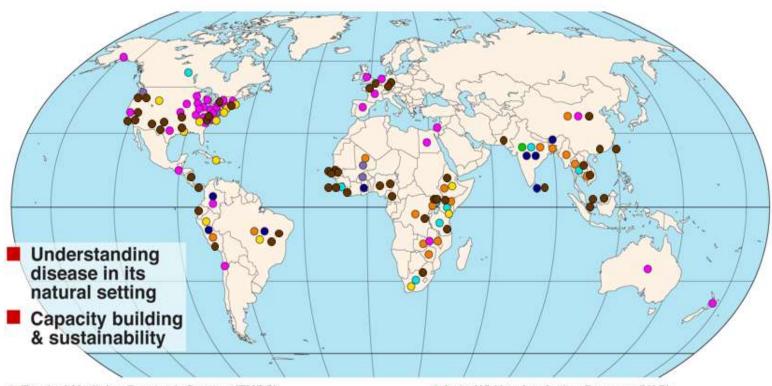
Division of AIDS: Clinical Research and Epidemiology Sites







Division of Microbiology and Infectious Diseases: International Research Programs



- Tropical Medicine Research Centers (TMRC)
- International Collaborations in Infectious Disease Research (ICIDR)
- International Centers of Excellence in Malaria Research (ICEMR)
- Malaria Vaccines: Clinical Research and Trial Sites
- NIAID Centers for Research in Emerging Infectious Diseases (CREID)

- Indo-US Vaccine Action Program (VAP)
- NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS)
- Tuberculosis Research Unit and Tuberculosis Clinical Diagnostics Research Consortium





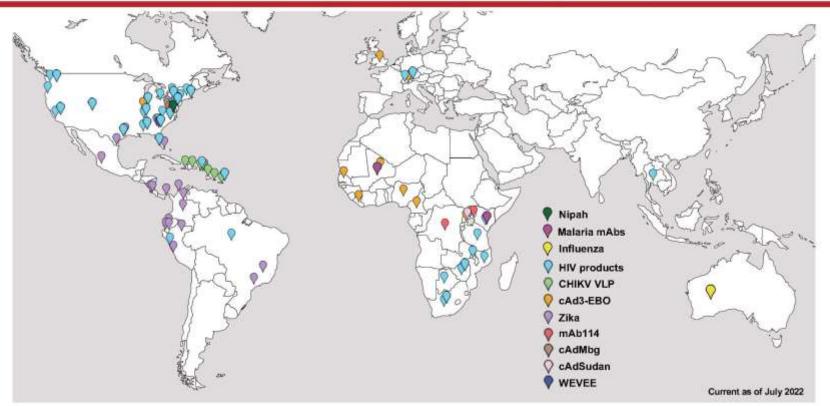
Division of Allergy, Immunology, and Transplantation (DAIT)

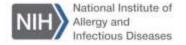


Vaccine Research Center (VRC)

Clinical Reach of VRC Products

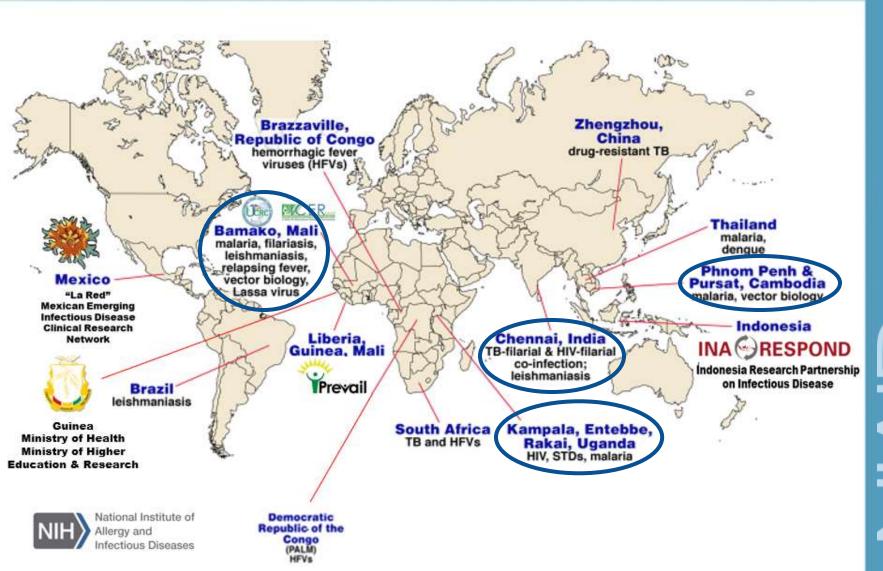
32 Countries (50+ trials by other Sponsors)





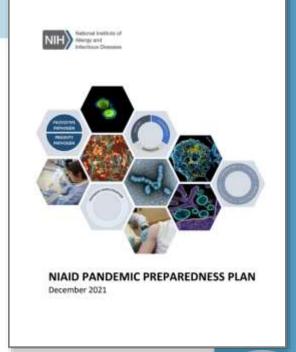


Major Intramural International Research Collaborations



NIAID Pandemic Preparedness Plan Goals

- Systematically characterize known pathogens of pandemic concern and increase research and surveillance on novel threats before they emerge
- Shorten timelines between outbreak onset and authorization/approval of diagnostics, therapeutics and vaccines
- Fill existing gaps in research, infrastructure, technology and expand non-clinical, pre-clinical, and clinical testing capacity



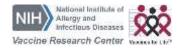


NIAID Efforts to Advance Pandemic Preparedness

- Research and Development of Vaccine and Monoclonal Antibody for Pandemic Preparedness Centers (ReVAMPP)
 - Characterize and develop MCM for select pathogens
- Antiviral Program for Pandemics (APP)
 - Develop new antivirals for COVID-19 and prepare for other pandemic threats
 - Establish Antiviral Drug Discovery (AViDD) Centers for pathogens of pandemic concern
- Pandemic Response Repository Microbial Immune Surveillance and Epidemiology (PREMISE)
 - Utilize immunologic and virologic screening to identify candidates to develop into countermeasures for pathogens of pandemic potential

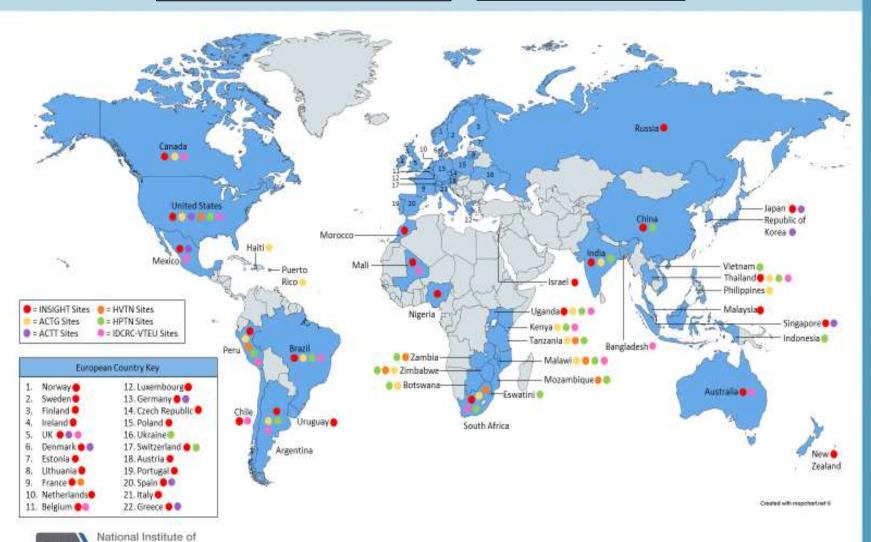






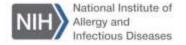


COVID-19 Therapeutic Networks



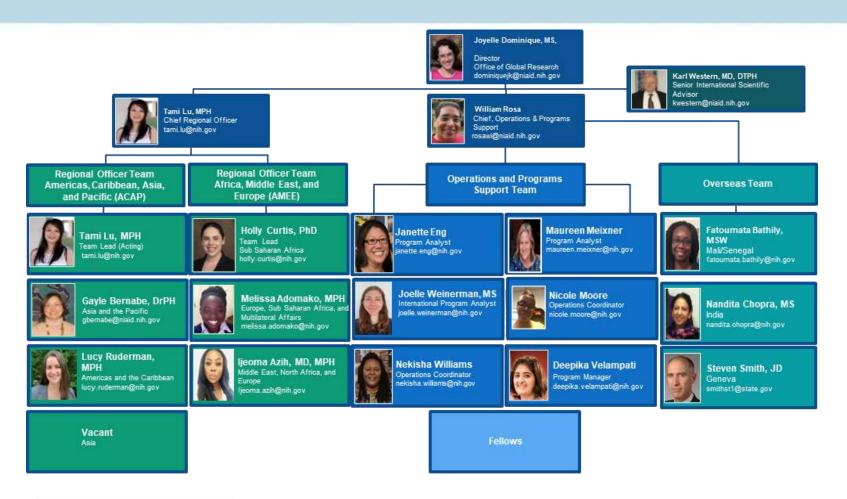
Challenges and Lessons Learned

- Science impacted by global events
- Preparedness
- Research capacity
- Sample and data sharing
- Funding





OGR Staff Organization





NIAID Involvement in **Americas and the Caribbean**

Disease / Research Priorities

 COVID-19, chikungunya, dengue, HIV/AIDS, influenza, leptospirosis, malaria, NTDs, TB, and Zika

Major NIAID Activities

- Dengue vaccine development and evaluation
- Zika in Infants and Pregnancy (ZIP) Study
- HIV/AIDS clinical trials and epidemiology networks
- International Centers of Excellence for Malaria Research (ICEMR)
- Regional Prospective Observational Research in Tuberculosis (RePORT)
- **Tropical Medicine Research Centers (TMRC)**
- Centers of Excellence for Influenza Research and Response (CEIRR)
- Centers for Research in Emerging Infectious Diseases (CREID) Network







Questions?

