National Institutes of Health Update

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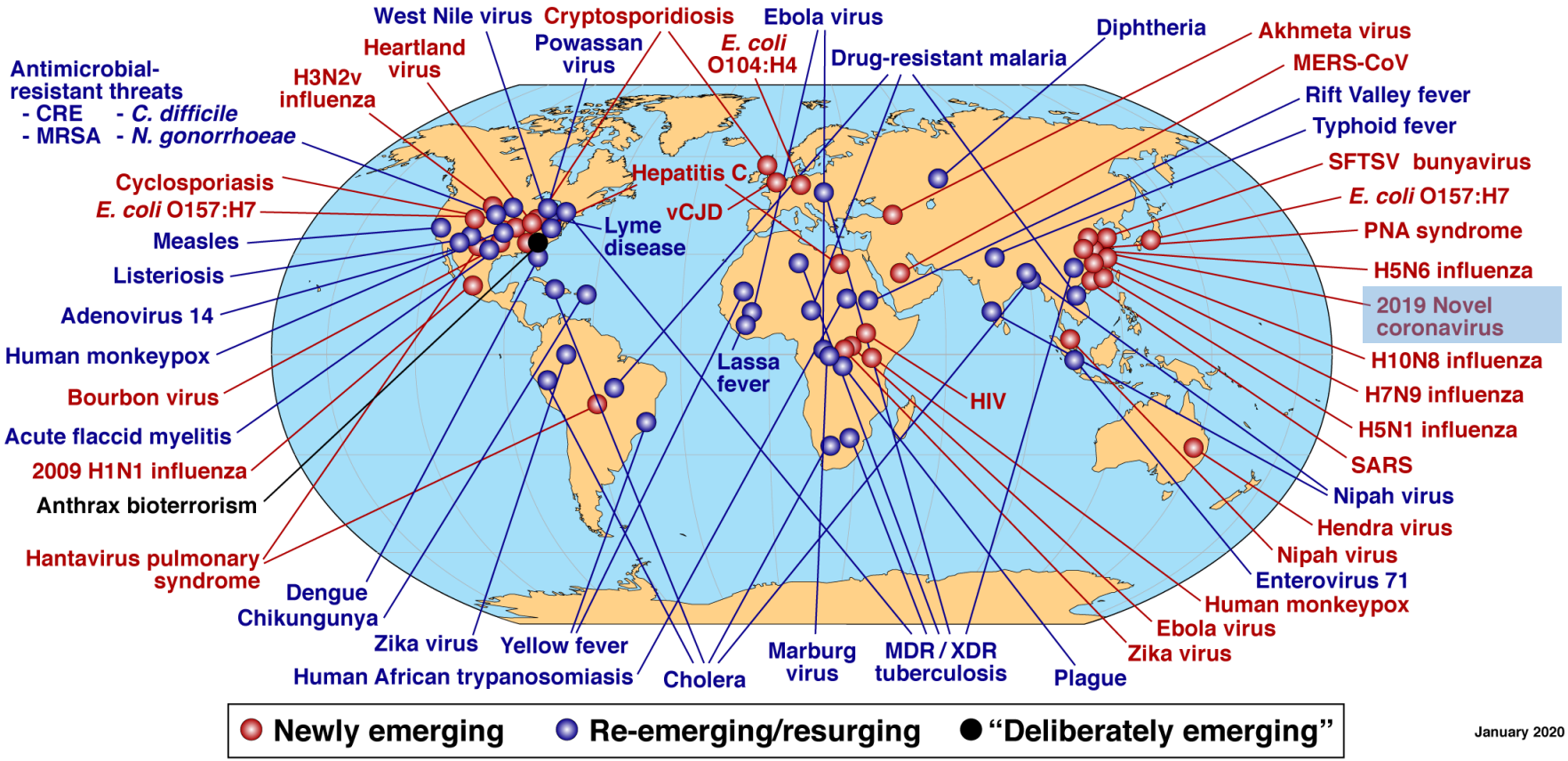
March 2020

Global Examples of Emerging and Re-Emerging Infectious Diseases



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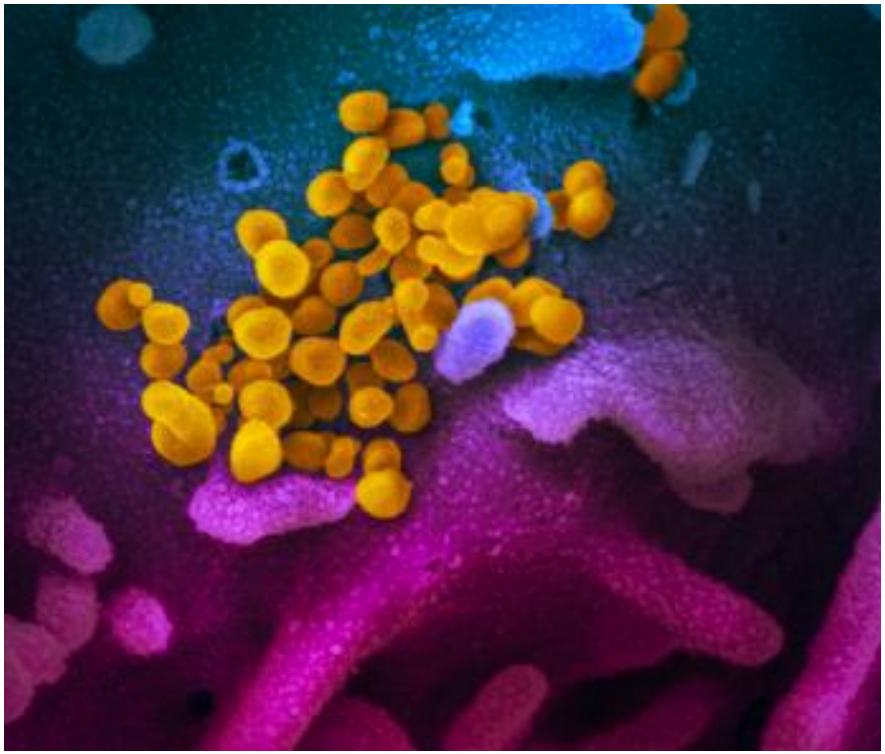
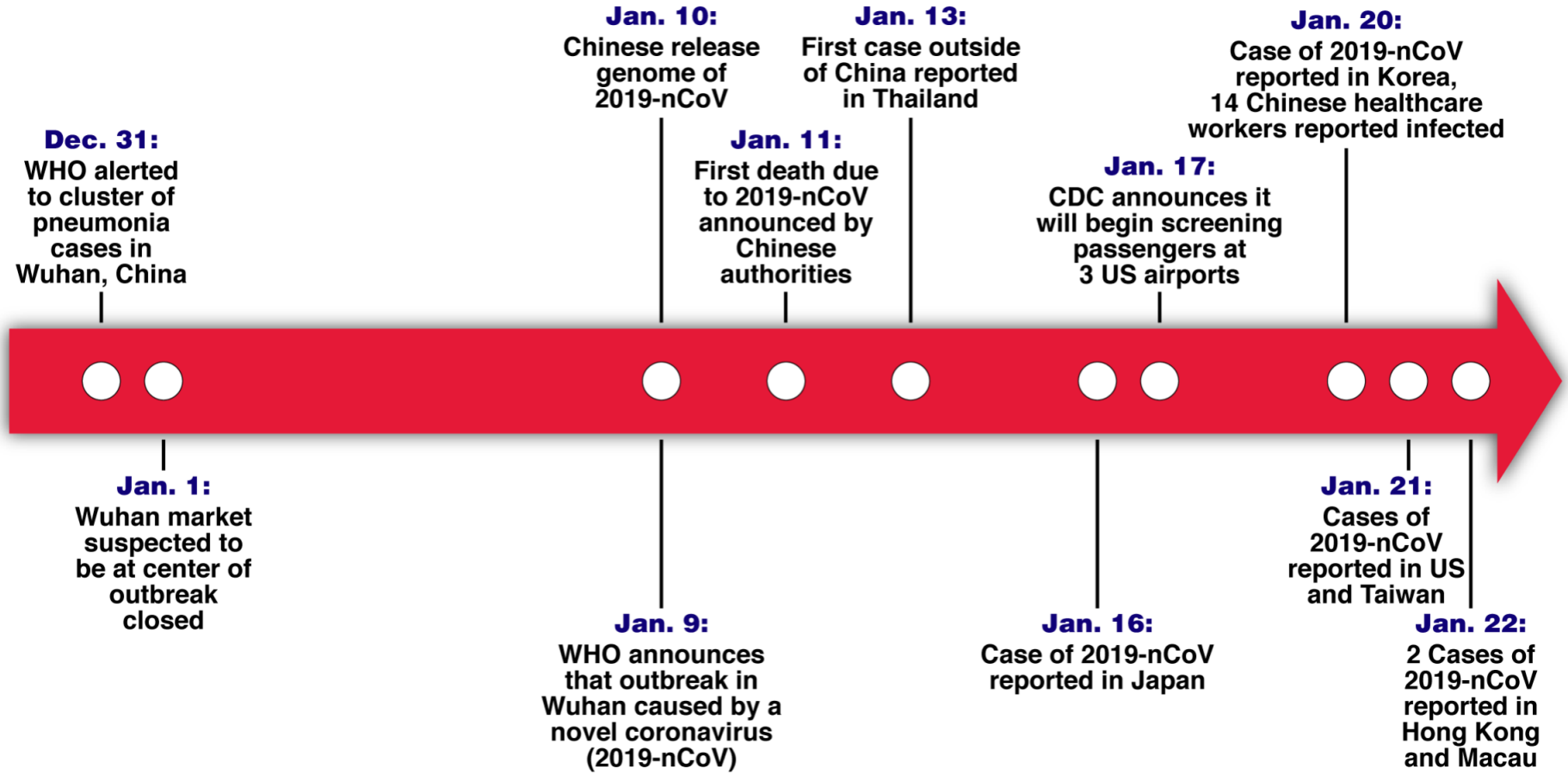
Novel Coronavirus: SARS-CoV-2



National Institute of Allergy and Infectious Diseases

Timeline of Early Events in 2019-nCoV Epidemic



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National Institute of Allergy and Infectious Diseases

January 11, 2020

Science

NEWS

Chinese Researchers Reveal Draft Genome of Virus Implicated in Wuhan Pneumonia Outbreak

Jon Cohen

AS Fauci/NIAID

National Institute of Allergy and Infectious Diseases

THE WALL STREET JOURNAL

January 23, 2020

Drugmakers Rush to Develop Vaccines Against China Virus

- NIAID's VRC collaborated with Moderna to design an mRNA candidate vaccine
- NIAID anticipates beginning a Phase 1 clinical trial within 3 months

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National Institute of Allergy and Infectious Diseases

Ongoing Ebola Outbreak in the Democratic Republic of the Congo

- Aug. 2018-Jan. 21, 2020
- **Cumulative cases/deaths: 3,416/2,238**

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Ring Vaccination Used to Curb the Spread of Ebola in DRC Outbreak

- Ring vaccination: Vaccinate contacts, contacts of contacts, frontline workers
- As of January 20, 2020, 270,138 people have received the investigational rVSV-ZEBOV vaccine

Image credit: Sam Mednick/AP

Source: WHO

U.S Department of **Health & Human Services**

U.S. Food and Drug Administration
Protecting and Promoting Your Health

News Release **December 19, 2019**

First FDA-Approved Vaccine for the Prevention of Ebola Virus Disease, Marking a Critical Milestone in Public Health Preparedness and Response

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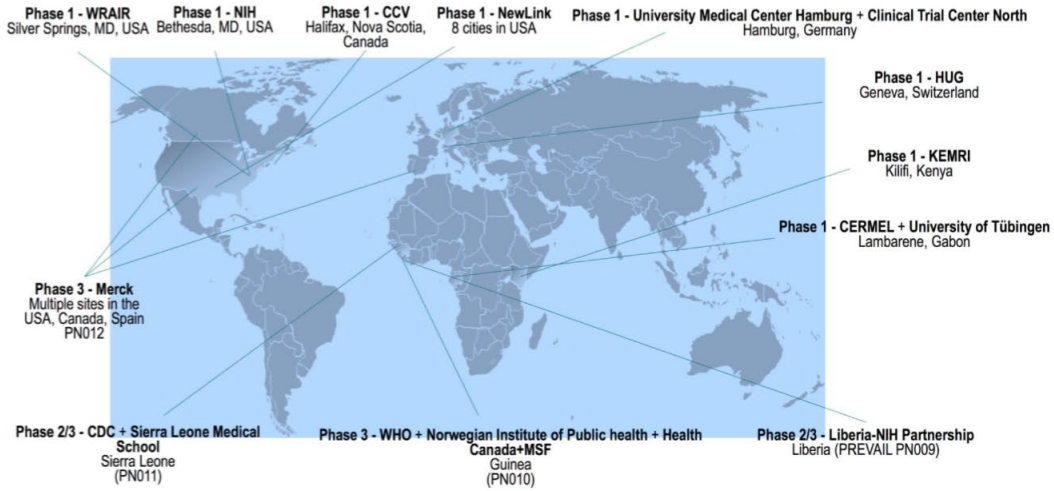
STAT

January 7, 2020

‘Against All Odds’: The Inside Story of How Scientists Across Three Continents Produced an Ebola Vaccine

By Helen Branswell



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National Institute of Allergy and Infectious Diseases

U.S. Department of Health and Human Services

NIH News

National Institutes of Health

National Institute of Allergy and Infectious Diseases (NIAID)
http://www.niaid.nih.gov
February 3, 2020

Experimental HIV Vaccine Regimen Ineffective in Preventing HIV

No Safety Concerns Found; NIH and Partners Discontinue Vaccinations

- NIAID stopped administration of vaccinations in its HVTN 702 clinical trial of an investigational HIV vaccine

- During an interim review, an independent DSMB found:
  - The regimen did not prevent HIV
  - No evidence of decreased or increased infection rates
  - Recommended that no further vaccination be administered
  - There are no concerns regarding participant safety

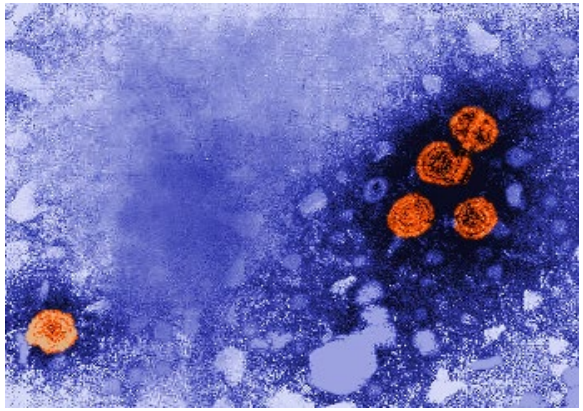
U.S. Department of Health and Human Services

NIH News

National Institutes of Health

http://www.nih.gov
December 10, 2019

NIH Strategic Plan Details Pathway to Achieving Hepatitis B Cure



Credit: CDC

- **Strategic Priority 1:** Understand Hepatitis B Biology
- **Strategic Priority 2:** Develop Tools and Resources
- **Strategic Priority 3:** Create Strategies to Cure and Prevent Hepatitis B

THE WHITE HOUSE
WASHINGTON

EXECUTIVE ORDER

September 19, 2019

Executive Order on Modernizing Influenza Vaccines in the United States to Promote National Security and Public Health

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National Institute of Allergy and Infectious Diseases

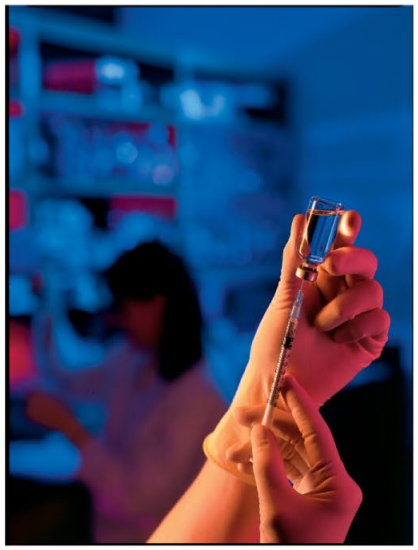
National Institute of Allergy and Infectious Diseases

December 19, 2019

News Release

Infectious Diseases Clinical Research Consortium Awards Announced

- The network will encompass NIAID's Vaccine and Treatment Evaluation Units (VTEUs) and create a new consortium leadership group



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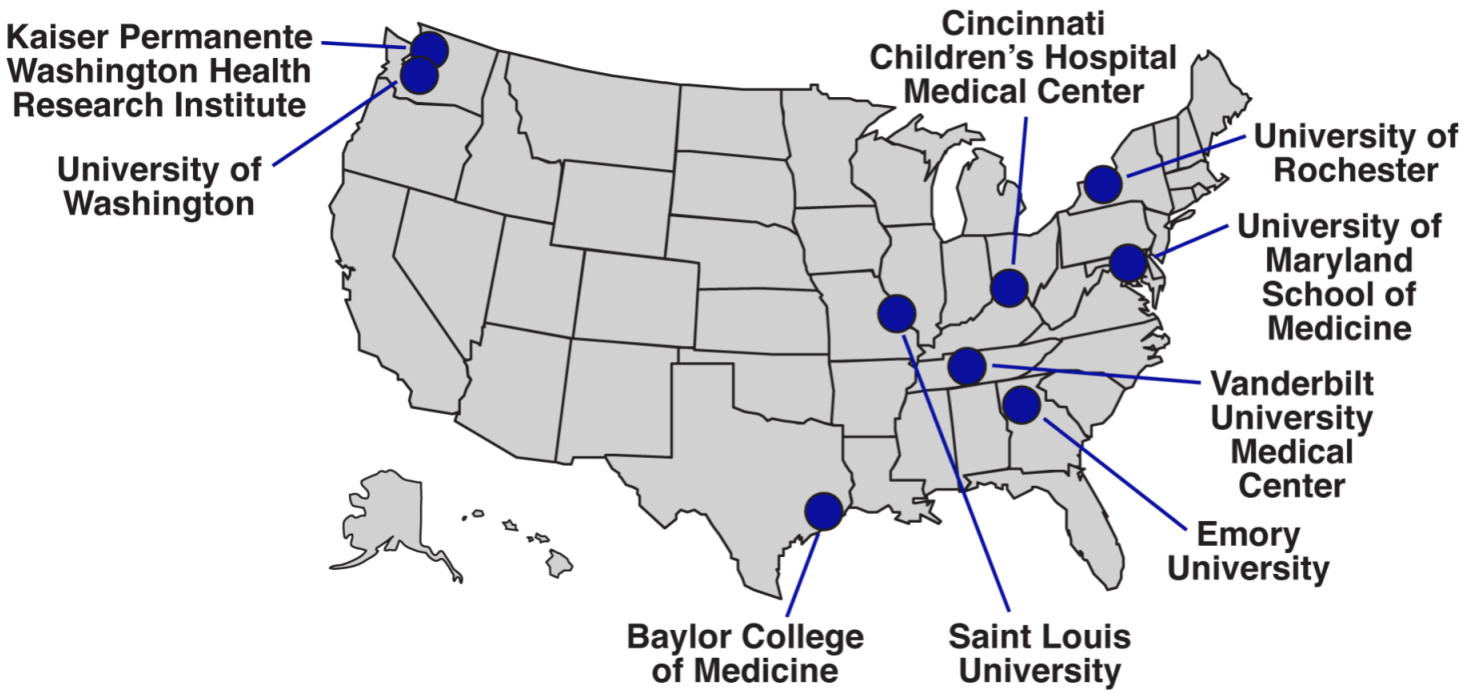
National Institute of Allergy and Infectious Diseases

NIAID's New Infectious Diseases Clinical Research Consortium (IDCRC)



- The Vaccine and Treatment Evaluation Units (VTEUs), established in 1962, are part of the new NIAID IDCRC

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