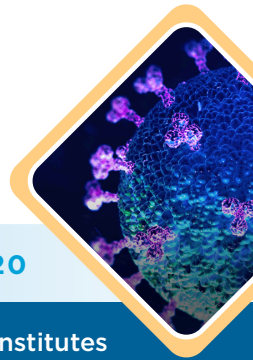


# AN UNPRECEDENTED IMPACT

A SERIES OF FACT SHEETS ON COVID-19 AND BIOMEDICAL RESEARCH

OCTOBER 2020



We must maintain and strengthen our nation's investment in medical research through the National Institutes of Health. This is an urgent priority for Congress, as our nation works to restart stalled research, keep up with pressing public health challenges, continue to fight COVID-19 and prepare for the next potential pandemic.

## PART 4 | NIH DRIVING PROGRESS

**The NIH is a driving force in the global effort to understand, treat and eradicate COVID-19.** In just months, progress is being made on many fronts thanks to congressional support for supplemental funding for NIH, the collaboration and investments by the life sciences and biopharmaceutical industries and America's longstanding leadership in biomedical research. Despite remarkable progress, much work remains and will require continued congressional prioritization of funding for the NIH.



### SUPPLEMENTAL FUNDING TO NIH TO ADDRESS COVID-19

**\$836 million**

Coronavirus Preparedness and Response Supplemental Appropriations Act

MARCH 5

**\$945 million**

CARES Act

MARCH 27

**\$1.8 billion**

Paycheck Protection Program and Healthcare Enhancement Act

APRIL 24

Source: [KKF.org](https://www.kkf.org)

### COORDINATING DEVELOPMENT OF CRITICAL TOOLS



NIH launched two programs in April to speed development of COVID-19 vaccines, treatments and diagnostic tests

#### ACTIV: Accelerating COVID-19 Therapeutic Interventions and Vaccines

AS OF SEPTEMBER 10



**3 Vaccines** in trials using harmonized protocols informed by ACTIV



**5 Trials** of therapeutics using ACTIV protocols

Source: [NIH](https://www.nih.gov)

#### RADx: Rapid Acceleration of Diagnostics

AS OF SEPTEMBER 20

##### RADx Tech Dashboard\* Program | 708 PROPOSALS



**15 In Progress** undergoing initial review



**45 Phase 1** proposals selected, undergoing de-risking



**131 Deep Dive conversations** to ID risks and milestones



**16 Phase 2** proposals selected for further development, manufacturing and distribution support

\*RADx-Tech and RADx-ATP are the first two of the four RADx programs to announce funded projects

Source: [NIH](https://www.nih.gov)

### NIH-SUPPORTED COVID-19 RESEARCH



Source: [NIH](https://www.nih.gov)

**506** via Regular Appropriations

**314** via Coronavirus Preparedness and Response Supplemental Appropriations

**123** via CARES Act

**40** via Paycheck Protection Program and Healthcare Enhancement Act

### MONITORING THE IMPACT ON PATIENTS

**alzheimer's association**

[Alzheimer's Association](https://www.alz.org) announces global effort to track impact of COVID-19 on the brain



Pandemic's impact on cancer patients and survivors



A history of stroke associated with death of hospitalized patients with COVID-19, study finds

## UNPRECEDENTED IMPACT, *cont.*

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### PROGRESS TOWARD TREATMENTS

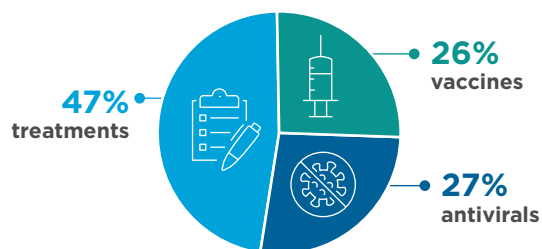
#### DEVELOPMENT

**739** unique compounds

in development globally

↑ up from **548** in June

more than half involve U.S.-based companies



Source: [BIO](#) | As of September 28

#### CLINICAL TRIALS

**1,597** clinical trials

testing COVID-19 treatments & vaccines

↑ up from **1,100** in June

- ✓ 360+ trials in the United States
- ✓ 99 clinical trials testing **34 vaccine candidates**
- ✓ 200+ trials are testing novel compounds and 955 trials are testing medicines approved for other indications

Source: [PhRMA](#) | As of September 11

#### DIAGNOSTIC TESTS

**170** million total U.S. shipments

of COVID-19 molecular diagnostic tests to date

**1.2 million** = daily shipments  
↑ up from **600,000** in May

Source: [AdvaMed](#) | As of September 25



### COVID-19 RESEARCH FROM AROUND THE COUNTRY

Never before has so much research energy and effort been deployed to understand, detect, and fight a single virus.



**BU scientists** are studying the biological domino effect SARS-CoV-2 sets off



Sticker-like medical device developed by **Northwestern team** streams COVID-19 symptom data to physicians



**Vanderbilt researchers** find streamlined diagnostic approach for COVID-19 avoids a potential testing logjam



**VUMC-led study** for CDC finds COVID-19 antibodies drop substantially in the weeks following infection



**Washington University** COVID-19 saliva test is faster, simpler and enables screening on a massive scale



**MIT robot** could reduce health care workers' exposure to Covid-19 virus



Odor-sensing cells in nose seen as key entry point for SARS-CoV-2, **Johns Hopkins study** finds



**Penn researchers** create database of drugs used to treat COVID-19 to find promising leads



Vaping linked to COVID-19 risk in teens and young adults, according to **Stanford study**



Children's role in spread of virus bigger than thought, **Harvard study** finds