

US government (USG) investment in global health R&D has delivered

\$73.6 million to Missouri research institutions*



Missouri's top global health R&D institutions by USG funding*

ORGANIZATION	FUNDING
Washington University	\$60.8 million
Saint Louis University	\$7.4 million
University of Missouri-Kansas City	\$3.6 million
University of Missouri-Columbia	\$1.8 million
University of Missouri-St. Louis	\$81 thousand

Global health R&D at work in the Show Me State



Researchers from Washington University School of Medicine have discovered that the Zika virus uses the process of autophagy, or cellular waste disposal—a key feature of the placental barrier—to infect the fetus. Their research also showed that an existing malaria drug, hydroxychloroquine, can protect the fetus by blocking this process. The drug is already approved for short-term use in pregnant women. Further studies are needed before it can be used for the duration of pregnancy. Counterintuitively, hydroxychloroquine blocks Zika by lowering the body's ability to clear out invaders.

Neglected diseases in Missouri[‡]

HIV diagnoses	4,599
Tuberculosis cases	855
West Nile cases	135
Malaria cases	118
Zika cases	38

Missouri industry in global health R&D

Bayer: Kansas City Charles River Laboratories: O'Fallon Mediomics: St. Louis Pfizer: St. Louis Sanofi: St. Louis

Missouri's top areas of global health R&D by USG funding^{*}



GLOBAL HEALTH R&D IS A SMART INVESTMENT FOR THE UNITED STATES[§]



USG investment in global health R&D between 2007 and 2015 **generated an estimated:**

200K new US jobs
\$33 BILLION in US economic growth.

*Authors' analysis of USG investment data from the G-FINDER survey, including funding for R&D for neglected diseases from 2007–2015 and for Ebola and select viral hemorrhagic fevers from 2014–2015. Reflects USG funding received by entities in state including academic and research institutions, product development partnerships, other nonprofits, select corporations, and government research institutions, as well as self-funding or other federal agency transfers received by federal agencies located in state; but excludes pharmaceutical industry data which is aggregated and anonymized in the survey for confidentiality purposes. See www.ghtcoalition.org for full methodology.

+Based on previous analysis of the economic impact of National Institutes of Health R&D funding and author's analysis described above. See www.ghtcoalition.org for additional details. ‡ Centers for Disease Control and Prevention: HIV diagnoses 2008-2016, Tuberculosis cases 2008-2016, West Nile virus disease cases 2008-2016, Malaria cases 2008-2014, Zika virus disease cases 2015-2017.

§ Source: Policy Cures Research, Global Health Technologies Coalition. Return on innovation: Why global health R&D is a smart investment for the United States. 2017. ¶ NTD: neglected tropical disease. NTDs include Buruli ulcer, Dengue, Helminths, Kinetoplastids, Leprosy, Trachoma, and Leptospirosis.

www.ghtcoalition.org