

PROVIDING SUPPORT AND SOLUTIONS FOR OPEN SCIENCE TO ACHIEVE IMPACT

Toward an Open Science Enterprise
The National Academies of Sciences, Engineering, and Medicine
September 18, 2017

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WE ARE IMPATIENT
OPTIMISTS WORKING
**TO REDUCE
INEQUITY**

AROUND THE WORLD



FOCUSING ON
THE AREAS OF
**GREATES
TNEED**



TAKING RISKS

THAT OTHERS
CAN'T OR WON'T



MAKING MARKETS
**WORK FOR
THE POOR**



WHAT WE FOCUS ON



**What are
the areas
of greatest
need?**



**Where can
we have
the greatest
impact?**

THE SCOPE OF OUR WORK

We work with partner organizations around the world to reduce inequity

Program
Strategies
29



Value of Grants
\$3.9B



Countries
121



Employees
1,420



Grantees
1,109



No. of Grants
1,669



U.S. States
31



Alumni
1,100



For the Year ended December 31, 2015. Amounts in thousands of U.S. dollars. Value of Grants total represents grants only.

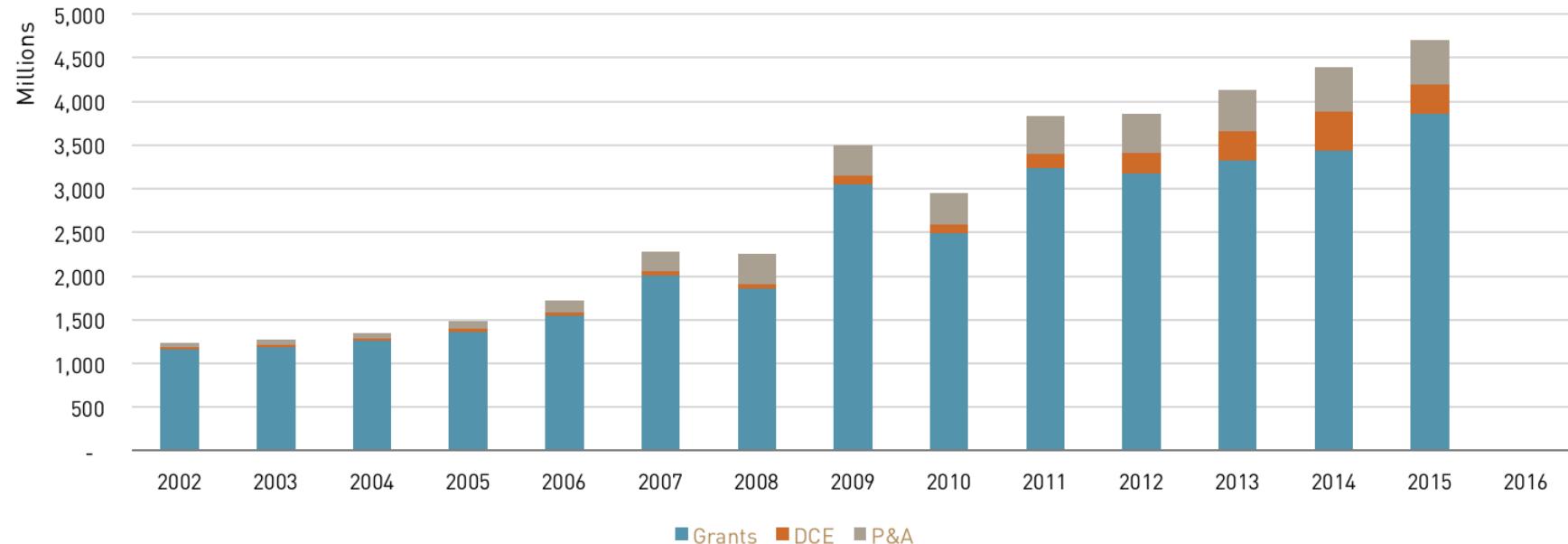
WHERE WE WORK

From our headquarters in Seattle to our teams based in regional offices across four continents, we work with partners around the globe to improve people's lives.

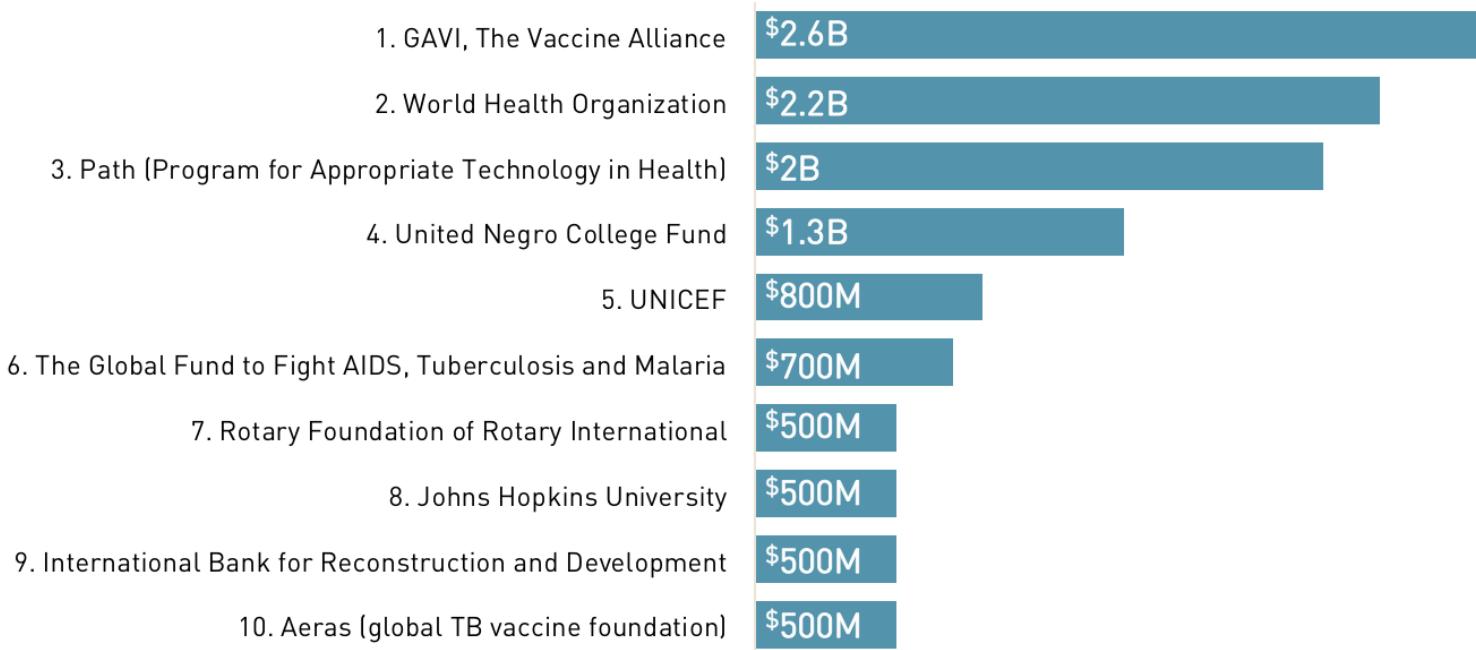


OUR CONTRIBUTIONS

The foundation has donated \$36.7 billion to nonprofits since 2000



TOP 10 GRANT RECIPIENTS BY DOLLAR AMOUNT



For the Year ended December 31, 2014. Value of Grants total represents grants paid.

WHAT WE DO

The foundation has four missions that help us achieve our vision of a world where every person has the opportunity to live a healthy, productive life:



Ensure more children and young people survive and thrive



Empower the poorest, especially women and girls, to transform their lives



Combat infectious diseases that particularly affect the poorest



Inspire people to take action to change the world

■ WHY OPENNESS MATTERS



A photograph showing a woman in a brown blazer and glasses holding a syringe and a small white vial. In the background, a woman is holding a child. The text 'OPENLY SHARING RESEARCH ACCELERATES OUR IMPACT' is overlaid on the left side of the image.

OPENLY SHARING
RESEARCH
ACCELERATES OUR
IMPACT

OPEN ACCESS POLICY

As of January 1, 2017, the foundation's Open Access Policy is fully operational, with **no exceptions to the policy**.



Chronos, a web based service that enables the foundation to track the impact of research, launched July 2016.

OPEN ACCESS POLICY* – FOUR REQUIREMENTS & A COMMITMENT

ELEMENT 1

DISCOVERABLE AND ACCESSIBLE ONLINE

- Publications will be deposited in a specified repository(s) with proper tagging of metadata.

ELEMENT 2

OPEN ACCESS TERMS

- All publications shall be published under the Creative Commons Attribution 4.0 Generic License (CC BY 4.0) or an equivalent license.

ELEMENT 3

NO EMBARGO

- All publications shall be available immediately upon their publication, without any embargo period

ELEMENT 4

UNDERLYING DATA

- The foundation will require that data underlying the published research results be immediately accessible and open.

ELEMENT 5

REASONABLE FEES

- The foundation will pay the reasonable fees in order to publish on the terms our Open Access Policy.

Implemented in 2015, the foundation granted a two year transition period for policy compliancy. As of January 1, 2017, all publications are required to publish on the foundation's open access terms.

MAKING THE POLICY COME ALIVE

Immediate Changes

- As of January 1, 2015, a non-negotiable open access clause was added to all grant agreements.
- Creation of a centralized budget to pay open access fees

Manual Processing

- Grantees who want to publish on the foundation's open access terms email openaccess@gatesfoundation.org for processing and payment.



■ MAKING THE POLICY COME ALIVE – LESSONS LEARNED

The Good

- Financial incentives were received with great enthusiasm by our grantees.
- Embedding the non-negotiable OA requirement into every agreement meant OA was part of the business process
- No exceptions are granted to the policy
- Executive Sponsorship was vital to success (and they rocked it.)



■ MAKING THE POLICY COME ALIVE – LESSONS LEARNED

The Grind

- Developing a new web product to track the impact of the foundation's research.
- Underlying data
- Communication with stakeholders



■ CHRONOS – THE GRIND NO MORE



CHRONOS – WHAT WE DIDN'T KNOW BEFORE

The screenshot shows the CHRONOS Insights dashboard. The left sidebar, under the 'Jennifer Hansen' profile, lists various sections: Dashboard, Articles, All Articles listed, Accounts, Grants, Insights (which is selected), Invoice flow, Invoices, Journals, Organizations, People, and Publishers. The main content area is divided into four sections: 'Top Organizations' (listing The Task Force for Global Health, Inc., PATH, University of North Carolina at Chapel Hill, University of Washington Foundation, Imperial College London, International Food Policy Research Institute, London School of Hygiene and Tropical Medicine, Johns Hopkins University, Centro Internacional de Mejoramiento de Maíz y Trigo, and University of Oxford with publication counts 64, 64, 50, 44, 36, 35, 35, 32, 30, and 24 respectively), 'Top Journals' (listing PLOS ONE, Journal of Infectious Diseases, Vaccine, American Journal of Tropical Medicine and Hygiene, Malaria Journal, The Lancet Global Health, Journal of Nutrition, Clinical Infectious Diseases, BMC Public Health, and BMJ Open with publication counts 67, 65, 48, 33, 31, 26, 25, 25, 24, and 24 respectively), 'Most used Publishers' (listing various publishers used in article submission), and 'Publisher journal count' (listing the number of journals connected to each publisher). The top navigation bar shows the URL https://chronos.gatesfoundation.org/insights/ and the date 9/17/2017.

Organization	Publications submitted
The Task Force for Global Health, Inc.	64
PATH	64
University of North Carolina at Chapel Hill	50
University of Washington Foundation	44
Imperial College London	36
International Food Policy Research Institute	35
London School of Hygiene and Tropical Medicine	35
Johns Hopkins University	32
Centro Internacional de Mejoramiento de Maíz y Trigo	30
University of Oxford	24

Journal name	Publications submitted
PLOS ONE	67
Journal of Infectious Diseases	65
Vaccine	48
American Journal of Tropical Medicine and Hygiene	33
Malaria Journal	31
The Lancet Global Health	26
Journal of Nutrition	25
Clinical Infectious Diseases	25
BMC Public Health	24
BMJ Open	24

CHRONOS – WHAT WE DIDN'T KNOW BEFORE

The screenshot shows the CHRONOS Insights dashboard. At the top, there are two horizontal bar charts. The left chart shows 'Total invoice amount' (USD 2,722,723.30) and the right chart shows 'Upcoming invoice amount' (USD 378,175.00). Below these are two line graphs: 'Payment lead time' (ranging from 5 to 35 days) and 'Acceptance lead time' (ranging from 70 to 170 days). The 'Payment lead time' graph shows a dip in April and June, a peak in July, and a low in August. The 'Acceptance lead time' graph shows a peak in June and a low in July, followed by a sharp rise in September. The left sidebar lists navigation options: Dashboard, Articles, All Articles listed, Accounts, Grants, Insights (selected), Invoice flow, Invoices, Journals, Organizations, People, and Publishers. The bottom taskbar shows various Windows icons and the date 9/17/2017.

Chronos

Secure | https://chronos.gatesfoundation.org/insights/

Jennifer Hansen
Bill & Melinda Gates Foundation

My profile Log out

Dashboard

Articles

All Articles listed

Accounts

Grants

Insights

Invoice flow

Invoices

Journals

Organizations

People

Publishers

American Society for Nutrition
Nature Publishing Group

CHRONOS

American Society of Tropical Medicine and Hygiene

American Association for the Advancement of Science

Supporting Publishers

Emerald

Inderscience

Informa

Bentham Science Publishers

Institute of Electrical and Electronics Engineers

Brill Academic Publishers

Medknow Publications

Maney Publishing

Feedback Help

Total invoice amount
USD 2,722,723.30

Average invoice amount
USD 2,897.90

Upcoming invoice amount
USD 378,175.00

Payment lead time

Payment lead time text

days

Month	Payment Lead Time (days)
April	35
May	15
June	10
July	16
August	8
September	5

Acceptance lead time

Acceptance lead time text

days

Month	Acceptance Lead Time (days)
April	70
May	100
June	110
July	95
August	105
September	170

Top Grants

Accounts

3:37 PM
9/17/2017

CHRONOS – WHAT WE DIDN'T KNOW BEFORE

EXPLORE THE ALTMETRIC DATABASE

Altmetric Details Page
Wolbachia Blocks Currently Circulating Zika Virus Isolates in Brazilian Aedes aegypti Mosquitoes



SUMMARY News Blogs Policy documents Twitter Facebook Wikipedia Google+ More...

Title Wolbachia Blocks Currently Circulating Zika Virus Isolates in Brazilian Aedes aegypti Mosquitoes
Published in Cell Host & Microbe (Science Direct), May 2016
DOI 10.1016/j.chom.2016.04.021
Pubmed ID 27156023 *
Authors Heverton Leandro Carneiro Dutra, Marcele Neves Rocha, Fernando Braga Stehling Dias, Simone Brutman... [show]
Abstract The recent association of Zika virus with cases of microcephaly has sparked a global health crisis... [show]

[View on publisher site](#)

[Alert me about new mentions](#)

TWITTER DEMOGRAPHICS MENDELEY READERS ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of 142 tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)



Mentioned by

- 52 news outlets
- 9 blogs
- 1 policy source
- 142 tweeters
- 18 Facebook pages
- 1 Wikipedia page

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THE GRIND CONTINUES

**Underlying data – more
than guidelines, please**

**Continuous
communication**

WHAT'S NEXT

COMING SOON

**GATES
OPEN RESEARCH**



Defining Success in Open Science
A Leadership Forum



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