

Message from the Knowable Magazine team

Dear friends of Knowable,

On behalf of the editors, writers, illustrators and reporters here at *Knowable Magazine*, thank you for your support. In this, our first-ever Impact Report, we aim to share more about what your generosity helps make possible.

Knowable Magazine launched in 2017 to serve as a bridge between expert knowledge and the larger public. After eight decades of serving as an indispensable resource for the research community, our parent organization, the nonprofit publisher Annual Reviews, expanded its mission statement to include five small new words: "Annual Reviews is a nonprofit publisher dedicated to synthesizing and integrating knowledge for the progress of science and the benefit of society."

Those five small words carry a great deal of weight, and *Knowable Magazine* is a key initiative in the organization's evolution into a true public benefit. The Annual Reviews journals are a treasure trove of expert knowledge; *Knowable Magazine* serves to make expert knowledge freely accessible to all.

From the start, we aimed to meet what we saw as an urgent need for thoughtful science journalism that would deeply examine all the best available evidence. Our work could both complement and go beyond the "single study" approach to reporting on the latest developments in science. We set out to tell stories that were compelling, evidenced-based, beautifully illustrated and a joy to read. And, central to our mission and thanks to initial philanthropic support from the Gordon and Betty Moore Foundation and the Alfred P. Sloan Foundation, we make all of our content available for free.

It's fitting that we are publishing our first Impact Report now, after a year in which science has played a leading role in public discourse, and expert voices have been direly needed. The coronavirus pandemic, the ensuing global crisis and the successes and failures of the responses have underlined just why a well-informed, science-literate public is so crucial. We are proud of our contributions to increasing public understanding of science, and we are humbled to know that donors like you believe in and support our work.

Thank you so much for your support. We could not do this without you.

Sincerely,

Richard Gallagher, Publisher
Eva Emerson, Editor-in-Chief
Rosie Mestel, Executive Editor
Lisa Modica, Art Director
Rachel Ehrenberg, Associate Editor
Katie Fleeman, Audience Outreach and Strategy Manager
Ashley Wiesner, Digital Production and Editorial Coordinator





CONTENT PUBLISHED

(articles, videos, comics & podcasts)

TOTAL: 460 LAST YEAR: 148

REPUBLICATION

TOTAL: 615
LAST YEAR: 290

NEWSLETTER 40K subscribers

READERSHIP

TOTAL:

PAGEVIEWS: 6.4 million

PAGEVIEWS + REPUBLISHED VIEWS: 14 million

LAST YEAR:

PAGEVIEWS: 2.3 million

PAGEVIEWS + REPUBLISHED VIEWS: 6.5 million

Date range: Total: October 26, 2017 — June 30, 2021 Last year: July 1, 2020 — June 30, 2021 Republished views include estimated readership for partners who do not provide data

Recent awards

AMERICAN ASTRONOMICAL SOCIETY

2020 JONATHAN EBERHART PLANETARY SCIENCE JOURNALISM AWARD: How the moon landings changed our view of the solar system

2020 EDDIE & OZZIE AWARDS

EDITORIAL USE OF DATA

Winner: Why scientists need to be better at data visualization

LONG-FORM FEATURE CONTENT

Winner: Synthetic media: The real trouble

with deepfakes

Honorable mention: The life and breath

of galaxies

NEWSLETTER

Winner: Knowable Magazine newsletter

PROFILE OR Q&A

Honorable mention: To date a dinosaur

SERIES OF ARTICLES:

CONSUMER, SCIENCE & TECHNOLOGY

Honorable Mention:

Building Bodies: A Special Report

SINGLE ARTICLE,

CONSUMER, HEALTH / FITNESS

Winner: The workout drug

SINGLE ARTICLE, CONSUMER, OVERALL

Winner: Plumbing 101: Building the body's tubes

and branches

Honorable Mention: What is a cytokine storm?

DATA VISUALIZATION

Honorable Mention: Why scientists need to be

better at data visualization

WEBBY AWARDS

WEBSITES AND MOBILE SITES, SCIENCE

2020 Honoree

BEST SHORT-FORM SCIENCE WRITING

NEWS, INVESTIGATIVE OR DATA, JULY-DECEMBER 2020

Pick: What is a cytokine storm?

Honorable mention: The fragile state of

contact languages

MISFITS, JULY-DECEMBER 2020

Pick: The origin of mud

Solid science coverage during a global pandemic

The Covid-19 pandemic brought science to the forefront of public discussion. In the midst of the uncertainty, we sought to do what we do best: publish solid, well-reported science journalism. And, crucially, we could make this essential coverage available for free, both for our own readers and for other news outlets to republish through our content-sharing partnerships.

With support from the Alfred P. Sloan Foundation, we developed Reset: The Science of Crisis & Recovery. These stories cover the evolving knowledge of the new coronavirus and the illness it leaves in its wake. Taking a broader view, the ongoing series continues to examine how the world is responding to the crisis and how society may change post-pandemic.

Just to name a few examples:

Solidly reported explainers including:

- What is a cytokine storm?
- How viruses evolve: Lessons for the pandemic
- Know thine enemy: Why genetic sequencing is key to tracking Covid-19

Deeply reported features exploring:

- The bat-virus détente (a version appeared in the Washington Post)
- Growing a more resilient global food system (republished by *Insider* and the *Counter*)
- The enduring allure of conspiracy theories (republished by Nieman Lab)

Comics, produced in collaboration with The Nib, delving into:

- Coronavirus evolving: How mutations arise and new variants emerge
- How the pandemic could change architecture

Explore more: knowablemagazine.org/report/reset

Short, scientist-written opinion pieces discussing:

- How men can 'lean in' on behalf of women (produced with the Los Angeles Times)
- Wanted: Online gamers to help build a more stable Covid-19 vaccine (produced with Bloomberg Opinion)
- Four ways HIV activists have saved lives during Covid (produced with Newsweek)

High-quality videos in which leading scientists explain:

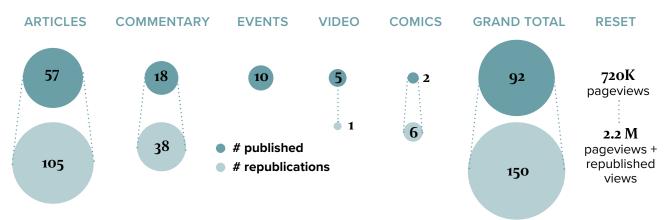
 Coronavirus transmission: SARS-CoV-2 in the air

 Pandemic economics: The economy of fear

 Covid-19: Why race matters for health



METRICS



Launching an engaging online event series

As part of Reset, we launched a free online event series that brought the voices of leading scientists directly to our audience. We wanted the presentations to be lively and conversational, so we sought out scholars who could communicate their expert knowledge in an accessible way, and we addressed audience questions during the moderated discussion.

From October 2020 – May 2021, we produced 10 events on a broad range of topics, from sourdough science to child development to wearable devices. Over 4,100 viewers joined live from around the world and thousands more watched the free replay.



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The science of sourdough: Free online event

VIDEO: Watch the conversation with microbial ecologist Erin McKenney and Guylaine Lacaze and Karl De Smedt of Puratos baking consulting company



EVENT | HEALTH & DISEASE

Covid-19 and the Immune System: The Good, the Bad, and the Ugly

VIDEO: Watch our discussion on how the immune system responds to viral threats and what that means for developing vaccines against SARS-CoV-2



EVENT | SOCIETY

Stress and Resilience in the Pandemic and Beyond

VIDEO: Watch our conversation about the science of stress, coping and resilience, including advice on how to survive the pandemic and thrive through what's next



EVENT I HEALTH & DISEASE

Preventing the next pandemic: Exploring the origins and spread of animal viruses

VIDEO: Watch our conversation about how infectious agents are transmitted from one species to another, and what can be done to prevent future pandemics



EVENT | THE MIND

How to change behavior during a pandemic: From personal habits to public health

VIDEO: Watch our conversation about the science of behavior change – from public health tools to slow the pandemic to keeping New Year's resolutions

Watch the replays: knowablemagazine.org/events



How has the pandemic influenced public attitudes toward science?

VIDEO: Watch our conversation about how understanding and trust in science have changed in the past year, science's evolving role in society and how group identities shape people's views.



VENT | FOOD & ENVIRONMENT

Baking resilience into the food system

VIDEO: Watch our conversation about the pandemic's effect on global food supplies and distribution, and how we might prevent future crises arising from climate change



EVENT I THE MIND

Effects of the pandemic on the developing child

VIDEO: Watch the replay of our live conversation about how Covid-19 and social distancing are affecting children now, and what to expect as we emerge from the crisis



VENT I HEALTH & DISEASE

Keys to successful aging

VIDEO: Watch a scientific exploration of why old age is often associated with high levels of emotional well-being, even as physiological and cognitive capacity declines



VENT | TECHNOLOGY

Monitoring our health with smartwatches

VIDEO: Wearable devices are increasingly used for tracking health data and identifying problems. Watch the conversation from Wednesday, May 26 exploring the promise and pitfalls of personal tech.



METRICS

8,200 registrants

153 countries

4,100 live viewers

6,600 replay views (including all platforms)

Republishing

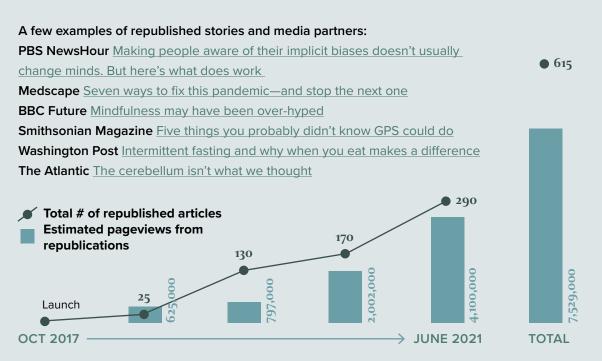
From the start, we realized that one of the best ways to reach interested readers would be allowing other publications with eager, established audiences to republish our work. This approach has proved an enormous success, doubling our reach. *Knowable* stories have been republished over 600 times by more than 60 publications, from our hometown <u>San Jose Mercury News</u> to India's <u>The Wire</u>. We recently started to explore opportunities to translate *Knowable*'s work into other languages, so that *Knowable*'s deep reporting can benefit readers beyond the English-speaking world.

Philanthropic support allows us to provide these high-quality stories, for free, to a broad range of publications, increasing public awareness of science and scholarship, while making sure that the writers, editors and illustrators who craft these compelling stories are paid and credited.

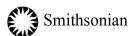
Interested in becoming a republishing partner? Please get in touch!

Contact us at <u>knowablemagazine@annualreviews.org.</u>
Our guidelines here: <u>knowablemagazine.org/republish.</u>





Our work has appeared in:















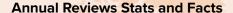




Unlocking expert knowledge

For over 85 years, *Knowable*'s publisher, nonprofit Annual Reviews, has been a trusted source for scientists seeking to keep up to date with solid, comprehensive evaluations of research, the most promising developments and future lines of inquiry. Annual Reviews' <u>51 journals</u> publish over 1,000 review articles every year in the life, biomedical, physical and social sciences — a wealth of knowledge with implications and applications beyond the scholarly realm. *Knowable* provides free, seamless access to related reviews at the end of every article. To date, *Knowable* has facilitated free access to over 720 review articles, with readers seeking out such in-depth information more than 92,000 times.

Knowable complements this expert scholarship by rendering it more accessible to non-specialists through the use of clear language and enticing graphics, providing context and key points around an issue. Review articles often serve as springboards; beyond that initial inspiration, editorial decisions are made by the magazine's editors, guided by journalistic best practices and our independent judgment as to what will best inform, intrigue and have an impact on readers.



1931: Founded at Stanford University

2020: Annual Reviews published

51 journals | 1,158 articles |

4,238 figures | 3,252 authors invited

from 49 countries

Journal Impact Factors

In their respective categories:

- 15 journals are ranked #1
- 10 journals are ranked #2
- 4 journals are ranked #3

Source: The 2021 Edition of the Journal Citation Reports® (JCR) published by Clarivate Analytics

Knowable has facilitated free access to 720 scholarly review articles



Read more about open access initiatives at Annual Reviews: www.annualreviews.org/page/subscriptions/subscribe-to-open



Notable stories

Expert insights into pressing social issues

In a world roiled by inequality, unrest and political and racial divisions, evidence-based solutions are crucial. We <u>talked</u> <u>with psychologist Anthony Greenwald</u>, co-creator of the implicit association test, which exposes the deep-seated biases people unknowingly hold; he told us what works and what doesn't to curb these intractable prejudices. We profiled the <u>Center for Policing Equity</u>, a coalition of social scientists, legal experts and former police officers that works with police departments to identify and reduce racist behaviors. We asked scholars <u>what the future may hold for Black Lives Matter</u>, based on the fate of past movements. And our story on <u>the psychology of lying</u> detailed how misconceptions about "what a liar looks like" can lead to grave miscarriages of justice.



A changing climate

Knowable kept its eyes on the urgent climate crisis and sustainability issues. We talked with an environmental law expert who holds that a healthy environment should be codified as a human right, and with a climate scientist on the role of geoengineering in solutions. We looked at how to reforest after California's wildfires to future-proof for a warming climate; at the problem of emissions of nitrous oxide (laughing gas) in agriculture; and at new ideas on fostering sustainability, through governance at the local level. We also published an expansive package on how improvements in recycling could help enable a circular economy.



Illuminating the wonders of the natural world

Some of the best science, and science journalism, comes from following one's curiosity. Reading about something — anything! — other than Covid and politics also served as welcome respite for many this last year. A few of our favorites include a look at the origins of mud and a delightful romp through the biology of mistletoe. On the eve of the tense 2020 US election, we indulged in a deep dive into the ungentle joy of spider sex. Of course, some of the topics we tackled also hold real-world applications, such as the cardiovascular secrets of giraffes; the genetic tricks of long-lived animals; and the physics of silent owl flight (which could inspire quieter windmills).





Capturing the human side of science

Video brings the emotional impact of research to the forefront. A notable recent example is our short documentary accompanying a story on ADHD in women and girls. In the video, members of a support group tell their stories about the challenges and stresses associated with living with ADHD. Published more than a year ago, the video continues to resonate with viewers, many of whom have shared their experiences, resources and tips in the comments. To see the video help others, and then to witness it inspiring viewers to further share and help one another, punctuates why the work we do at *Knowable* is so worthwhile.

Probing the history of ideas

We have access to a treasure trove of Annual Reviews articles, some dating as far back as 1932. These time capsules offer unique looks at how scientists thought in the past about everything from the feasibility of solar power to the nature of memory. The shifts in views as time passed and knowledge accrued can be surprising. Drawing on these and other archives, we launched the first season of the *Knowable* podcast in January 2021.

"This show promises to deliver great content in the future. I particularly like the format of 15-20 minutes for each episode, because it satisfies my commute. It is long enough to provide interesting sound bites backed by resources to bring home to the dinner table, and you can consult their complementary magazine if you care to dig deeper.

Despite it being relatively new, I for one am looking forward to keeping it in my queue, so I don't miss a single episode!" —Dr. Heidi's Independent Review Of A Science Podcast You Probably Haven't Heard Of... But Should Be Listening To

THE KNOWABLE PODCAST, SEASON 1:



EPISODES

How black holes morphed from theory to reality

The heart of invention

Memory, the mystery

The dazzling history of solar power

A final thank you

To close, we offer a humble thank you to:

The Gordon and Betty Moore Foundation

The Alfred P. Sloan Foundation

The Annual Reviews Board of Directors and leadership

Our colleagues at Annual Reviews

Our Magazine Advisory Group

Our writers, reporters and illustrators

The Annual Reviews editorial committees and broader research community

And of course, a final thank you to you, our donors, whose support and generosity makes our work possible.

Get more involved

We want to hear from you. Comments? Questions? Send us your feedback

Are you a teacher or educator using *Knowable* stories in the classroom? We'd love to learn more. Please get in touch.

Want to bring *Knowable*'s fact-checked, evidence-based stories to your audience?

<u>Learn more about republishing our content</u>. Translation requests will be considered on a case-by-case basis; <u>email us to start a conversation</u>.

Knowable Magazine and Annual Reviews have multiple opportunities for donors interested in deepening their support for science journalism and scientific understanding.

For more information, please contact Kara Mitzel, Director of Development

kmitzel@annualreviews.org





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Annual Reviews is a nonprofit publisher dedicated to synthesizing and integrating knowledge for the progress of science and the benefit of society.







