

Annual Report

2022



SCIENCE
PHILANTHROPY ALLIANCE

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From the Advisory Board Chair

The Science Philanthropy Alliance had a transformative year in 2022, advancing our mission by increasing philanthropic support for science through impactful advising projects and amplifying our member's important work.

The Alliance welcomed new members and supporters, completed multiple advising projects, opened many new projects, and took on a host of new advisees. The Alliance also organized successful in-person and virtual events that brought together world-leading scientists and philanthropists to discuss the most pressing challenges and opportunities in science. Additionally, the Alliance continued implementing our strategic plan focused on the two pillars of new philanthropy for science and more impactful and effective science philanthropy.

This report showcases how the Alliance has effectively partnered with a diverse and expanding network of science funders who share our mission of advancing scientific discovery through visionary philanthropy. I am grateful for the continued leadership of Alliance President Dr. France A. Córdova, one of America's preeminent scientists, and all the members who have contributed to our efforts and joined us in this noble cause.

To learn more, please visit sciencephilanthropyalliance.org. Together, the Alliance will continue its consequential work of helping visionary philanthropists make a difference.



A handwritten signature in black ink that reads "Harvey V. Fineberg". The signature is fluid and cursive.

Harvey V. Fineberg, M.D., Ph.D.
Board Chair, Science Philanthropy Alliance
President, Gordon and Betty Moore Foundation

MISSION STATEMENT



The Alliance's mission is to advance scientific discovery through visionary philanthropy. Its vision is a world that increasingly supports and realizes the full benefit of scientific discovery. The Alliance is committed to pursuing and encouraging learning, curiosity, and innovation; collaboration, sharing, and partnerships; and diversity, equity, and inclusion. With this mission, vision, and set of values, the Alliance can help unlock the power and promise of science philanthropy, enabling future benefits for people and the planet.

I am delighted to share with you some of the 2022 highlights and achievements of the Science Philanthropy Alliance. Despite the challenges and uncertainties posed by the pandemic, the Alliance continued its critical mission of advancing visionary philanthropy to support scientific discovery across all fields and disciplines.

In 2022, we welcomed two new members, the W.M. Keck Foundation, and the Doris Duke Foundation, and two new supporters, the MacMillan Family Foundation, and the Sall Family Foundation. These organizations share our commitment to supporting discovery science for the benefit of humanity and the planet, and we are proud to have their support. The Alliance also opened 79 new projects, completed 74 advising projects, and took on 10 new advisees, with over \$850 million advised or influenced toward discovery science.

We also resumed our in-person events during 2022, while offering virtual opportunities for impactful learning and networking as we moved beyond the pandemic. The events covered topics such as data and software's role in science philanthropy, the intersection of climate change and infectious disease, a proposed plan to develop a single-shot cure for HIV within 10 years, funding discovery science in Africa, artificial intelligence, and much more. We also organized several webinars and roundtables on these and other subjects.

Through these activities, we fostered a community of science philanthropists who can learn from each other, exchange ideas, and collaborate on new initiatives. We also provided vital guidance and resources for aspiring and emerging donors who want to make a positive impact through science.

Visionary philanthropy informs, accelerates, and advances scientific research in many areas, providing flexible, long-term funding for high-risk, high-reward projects that may not be supported by other sources. By investing in curiosity-driven and interdisciplinary research, visionary philanthropists catalyze new discoveries and innovations that transform our understanding of the world and improve the quality of our lives.

As we look ahead, we are excited to continue our work with you and for you. We are grateful for your support, your partnership, and your passion for science. Together, we can make a lasting impact on our world.

Sincerely,



France A. Córdoba, Ph.D.
President, Science Philanthropy Alliance



Influenced Towards Discovery Science



Advising Projects Completed



Individual Advisees



New Advisees



Total Events



Total Members (as of 12/31/22) some anonymous



New Supporters



New Members

Advising Philanthropists

The Science Philanthropy Alliance helps philanthropists make satisfying and effective philanthropic investments by providing impartial advising services. The Alliance was founded in 2013 by six philanthropists and foundations with a shared vision to increase philanthropic giving to basic science so that over time science can indeed contribute to the well-being of society. Today, the Alliance has dozens of philanthropic organizations among its members, all committed to advancing scientific discovery. The Alliance is guided by an Advisory Board that maintains governance, advocates for philanthropic support for science, facilitates collaboration, and promotes our shared values.

At the core of the Science Philanthropy Alliance lies the Alliance's membership and advising program, which promotes a science philanthropy community focused on networking and shared learning.

CUSTOMIZED SERVICES TO MATCH PHILANTHROPISTS AT EACH STAGE OF THEIR JOURNEY

1 INTRODUCTION & EXPLORATION

- Defining Mission & Vision
- Developing Strategies to Advance Visionary Philanthropy
- Funding Mechanisms & Models
- Benchmarking Performance

2 CONNECTION & DATA GATHERING

- Connecting Scientists & Funders
- Convening Funder Discussions & Events
- Landscape Analysis

3 INVESTMENT

- Crafting Partnerships
- Supporting RFA/RFP Efforts
- Sourcing Funding Opportunities
- Vetting Proposals

The Alliance's expert philanthropic advisors and external science advisors provide advice to interested philanthropists and foundations, enabling them to support scientific research, either for the first time or at a higher level than before and with more confidence and satisfaction. As of January 2023, the Alliance supported 75+ philanthropists and foundations, completed over 300 advising projects, and influenced over \$3.9 billion in funding to support scientific discovery.

By offering tailored, expert advising services for each advisee, ranging from exploratory work and strategy definition to proposal sourcing and vetting, the Alliance advances vital financial support for scientific discovery.



The Alliance provided quick and expert feedback. We are incredibly impressed with the turnaround.

Matthew Crommett

Managing Director, LH Capital, Inc. and Lyda Hill Philanthropies



Alliance membership offers our staff the unique opportunity to learn from and collaborate with a community of their peers at other science funders. In addition to supporting the Alliance's core mission of advancing fundamental research, this community learning aspect of the Alliance's work provides immense value for our organization.

Dr. Daniel Linzer

President & CEO, Research Corporation for Science Advancement

NEW MEMBERS OF 2022



Founded in 1954, the W. M. Keck Foundation has more than \$1 billion in assets, which it uses to generate far-reaching benefits for humanity by supporting science, engineering, and medicine. They have established themselves as a leader in basic science funding through their annual research grants program which supports high-risk/high-impact work supporting groundbreaking scientists at every stage of their careers. Additionally, they have supported cutting-edge projects including establishing the Keck School of Medicine of USC, the Keck Observatory in Hawaii, the Keck Futures Initiative at the National Academies, and the Keck Institute for Space Studies at Caltech.



**DORIS DUKE
FOUNDATION**

Located in New York, NY, the Doris Duke Foundation works to improve the quality of people's lives through grants supporting the performing arts, environmental conservation, medical research, and child well-being, and through preservation of the cultural and environmental legacy of Doris Duke's properties. Through its Medical Research Program, the foundation strives to advance the prevention, diagnosis, and treatment of human disease by strengthening and supporting clinical research.

The First Strategic Plan

In June 2022, the Science Philanthropy Alliance launched its first strategic plan, which outlines the Alliance's vision, mission, goals, and strategies for the next five years from 2022 to 2027.

The plan builds on the Alliance's achievements since its inception in 2013 and reflects its commitment to advancing scientific discovery through visionary philanthropy. This strategic plan is guided by the foundational, interrelated pillars of new philanthropy for science, and more impactful and effective science philanthropy.

Under guidance from Alliance President Dr. France A. Córdova and with the leadership of Strategy Director Dr. Kate Lowry and input from our Advisory Board, a group of representatives from 10 member organizations worked tirelessly to explore and refine the Alliance's unique contribution to science philanthropy.

The Strategy Roundtable core group included: Dr. Yaw Agyeman, Adaptive Management and Evaluation Officer, Gordon and Betty Moore Foundation; Dr. Cyndi Atherton, Science Program Director, Heising-Simons Foundation; Roxanne Delaney, Assistant Vice President, Simons Foundation; Dr. Andrew Feig, Senior Program Director, Research Corporation for Science Advancement; Dr. Fatu Badiane Markey, Science Programs, Rita Allen Foundation; Dr. Victoria McGovern, Senior Program Officer, Burroughs Wellcome Fund; Dr. Evan Michelson, Program Director, Alfred P. Sloan Foundation; Dr. Khara Ramos, Vice President of Neuroscience and Society, Dana Foundation; Dr. Beatrice Renault, Chief Strategy Officer, Albert and Mary Lasker Foundation; Brooke Smith, Director of Science and Society, The Kavli Foundation.

Their collective effort is a prime example of how collaboration across funders can yield important results that elevate the entire science philanthropy community.



Members of the Strategy Roundtable (Fatu Badiane Markey, Andrew Feig, and Evan Michelson) during a panel discussion led by Strategy Director Kate Lowry at the Alliance's May 2022 meeting. The panel provided an overview of the plan and solicited input from Alliance members to help inform the final draft.

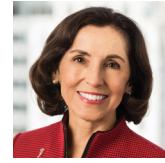
STRATEGY ROUNDTABLE MEMBERS



Yaw Agyeman, Ph.D.
Adaptive Management
and Evaluation Officer
Gordon and Betty Moore
Foundation



Cyndi Atherton, Ph.D.
Science Director,
Heising-Simons
Foundation



France A. Córdova, Ph.D.
President, Science
Philanthropy Alliance



**Roxanne Delaney,
M.P.H.**
Vice President,
Simons Foundation



Andrew Feig, Ph.D.
Senior Program Director,
Research Corporation for
Science Advancement



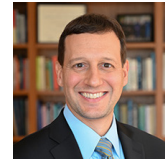
Kate Lowry, Ph.D.
Strategy Director, Science
Philanthropy Alliance



**Fatu Badiane Markey,
Ph.D.**
Program Manager,
Rita Allen Foundation



**Victoria McGovern,
Ph.D.**
Chief Strategy Officer,
Burroughs Wellcome Fund



Evan Michelson, Ph.D.
Program Director,
Alfred P. Sloan Foundation



Khara Ramos, Ph.D.
Vice President of
Neuroscience & Society,
Dana Foundation



Beatrice Renault, Ph.D.
Chief Strategy Officer,
The Albert and Mary
Lasker Foundation



Brooke Smith, M.S.
Director of Science & Society,
The Kavli Foundation

The strategic plan is guided by the foundational, interrelated pillars of 1) new philanthropy for science, and 2) more impactful and effective science philanthropy. The key strategic points are:

NEW PHILANTHROPY FOR SCIENCE

Philanthropy is well positioned to advance high-risk research, operate with flexibility and nimbleness, support diverse early career scholars, seed new research, leverage additional funding, scale impact through partnerships and open science, take a long-term approach, and work collaboratively and collectively as an Alliance.

We call for philanthropic support for discovery science, including curiosity-driven and use-inspired scientific research with a quest for knowledge. We recognize that basic science and its applications co-evolve and catalyze each other. Investment in both is required for a vibrant future.

The science philanthropy landscape warrants continuing to advise philanthropists in the United States with the capacity and inclination to advance scientific discovery. Advising is focused on both increasing funding and improving its impact and effectiveness.

Growth in membership will be focused on impact towards the Alliance's mission.

The Alliance will seek opportunities to position and promote science philanthropy as an important player in the research enterprise and the philanthropic sector by intentionally focusing on communications that encourage more philanthropic funding.

MORE IMPACTFUL AND EFFECTIVE SCIENCE PHILANTHROPY

The Alliance will collect and share the aggregated science giving of its members and distribute unique analyses and existing reports on national and global science funding trends, ensuring that data collection builds on existing efforts and is not duplicative.

The Alliance will vet and facilitate partnerships of interest to members that advance the Alliance's mission.

The Alliance will support its members through bi-directional communication with research institutions. Activities will focus on 1) convening funders and scientists to identify funding opportunities for philanthropists, and 2) broadly and inclusively sharing outreach about science philanthropy.

The Alliance will increase engagement and bi-directional learning with philanthropic entities in countries with substantial philanthropic giving and similar institutional structures, leveraging existing relationships.

Members will continue to have opportunities for shared learning and collaboration for more impactful and effective philanthropy through a variety of platforms, including Shared Interest Groups (SIGs):

The Alliance will advance diversity, equity, and inclusion (DEI) in science by facilitating the sharing of promising practices, offering training and workshops, and providing guidance on collecting data and establishing metrics for DEI.

The Alliance will support funders with measurement, evaluation, and learning (MEL) by disseminating promising practices, facilitating the joint development of metrics, and connecting funders to additional expertise as needed.

The Alliance will explore science communication as a topic for a future SIG.

With member input, the Alliance will periodically determine which topic areas warrant further attention, ensuring timely evolution of SIGs and other platforms.

Read the Alliance's full Strategic Plan at sciencephilanthropyalliance.org/strategic-plan/

2022 Events

The Science Philanthropy Alliance is a leading platform for connecting and empowering leaders in science and philanthropy, fostering collaboration and knowledge sharing among its members and the broader science philanthropy community.

In 2022, the Alliance hosted and co-hosted 17 events (4 in-person and 13 virtual) that successfully brought together philanthropists and foundations interested in supporting basic research. The events featured lively discussions and insights from experts.

Alliance-sponsored events presented an excellent opportunity to reconnect with the science philanthropy community after the pandemic, share best practices and lessons learned, and hear from experts and leaders in various scientific fields. The events highlighted the Alliance's expertise and guidance in advising philanthropists on how to make strategic and impactful investments in science.



Science Philanthropy President Dr. France Córdova is pictured above (right) with 2022 Templeton Prize recipient and Nobel Prize-winning theoretical physicist and author Dr. Frank Wilczek (left) in a thoughtful discussion about humankind's most perplexing questions.

SPOTLIGHT Alliance Members' Meeting, New York City, May 2022

Theme: Deciphering Data and Software's Role in Science Philanthropy

In May 2022, Science Philanthropy Alliance members gathered at the Simons Foundation in New York City for an exchange of robust ideas and engaging conversations. Nobel Prize-winning theoretical physicist, author, and 2022 Templeton Prize Winner Dr. Frank Wilczek spoke with Alliance President Dr. France A. Córdova about the ideas that form our understanding of the physical universe, which is the subject of his book *Fundamentals: Ten Keys to Reality*.

The meeting also offered a session exploring artificial intelligence's influence on discoveries. Alliance External Science Advisor Dr. Fleming Crim joined Dr. Regina Barzilay, School of Engineering Distinguished Professor for AI and Health AI Faculty Lead, Jameel Clinic MacArthur Fellow, MIT, and Dr. Shirley Ho, Group Leader, Cosmology X Data Science, Flatiron Institute, for a discussion of AI's future impacts on basic science.



Science Philanthropy Alliance External Science Advisor Dr. Shirley Tilghman, President Emerita and Professor of Molecular Biology and Public Affairs, Princeton University, Dr. Josh Greenberg, Program Director at the Alfred P. Sloan Foundation, Claudia Juech, Former Vice President, Data and Society for the Patrick J. McGovern Foundation, and Dr. Leslie Greengard, Director, Center for Computational Mathematics, Flatiron Institute, are pictured above discussing the importance of building data science infrastructure during the Alliance's May 2022 Members' Meeting.

In a panel moderated by Alliance External Science Advisory Dr. Shirley Tilghman, colleagues from the Sloan Foundation, McGovern Foundation, and Flatiron Institute outlined the importance of philanthropy in building a strong infrastructure for data and the need to focus on the infrastructure of people and institutions to support the sharing of data.

The gathering included a conversation between Dr. Rajiv Shah, President of the Rockefeller Foundation, and Dr. Lou Muglia, Burroughs Wellcome Fund President and CEO and Alliance Advisory Board Member, to discuss the role of data in philanthropy and the importance of partnerships.



Dr. Shirley Ho, Group Leader, Cosmology X Data Science, Flatiron Institute, Dr. Regina Barzilay, Professor of Electrical Engineering and Computer Science, MIT, and Science Philanthropy Alliance External Science Advisor Dr. Fleming Crim, John E. Willard and Hildale Professor of Chemistry Emeritus, University of Wisconsin – Madison, are featured above during the Alliance's May 2022 Member Meeting in New York City. Their discussion explored how AI is opening new pathways of discovery for researchers across fields.

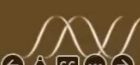
The gathering closed out with remarks followed by a presentation and discussion of the Alliance's new strategic plan by Strategy Director Dr. Kate Lowry and Strategy Roundtable members Dr. Fatu Badiane Markey, Science Programs Program Officer, Rita Allen Foundation, Dr. Andrew Feig, Senior Program Director, Research Corporation for Science Advancement, and Dr. Evan Michelson, Program Director, Alfred P. Sloan Foundation.




SPOTLIGHT Science Philanthropy Alliance, Aspen Institute, & Leaps.org

One Health/One Planet Report and Webinar

In May 2022, the Science Philanthropy Alliance partnered with the Aspen Institute's Science and Society Program and Leaps.org to publish a special report exploring the intersection of climate change and infectious disease. The report also outlines the many knowledge gaps that still exist in both distinct areas as well as where they intersect, and where the field needs to focus investment and research.

On June 7, 2022, the Alliance and its partner organizations hosted a webinar that featured 11 scientist experts who discussed the topics outlined in the publication. Dr. Jennifer Punt, Associate Dean of One Health at the University of Pennsylvania School of Veterinary Medicine moderated the discussions.

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Co-Published by  leaps.org  aspen institute  SCIENCE & SOCIETY
THE ASPEN INSTITUTE

SPOTLIGHT Science Philanthropy Alliance

Envisioning a Single-Shot Cure for HIV

In July 2022, the Science Philanthropy Alliance and the Bill & Melinda Gates Foundation hosted a virtual event on gene therapy for HIV and sickle cell disease (SCD). Speakers included Dr. France A. Córdova, President of the Alliance, Dr. David Baltimore, Nobel Laureate and Professor at Caltech, Dr. Mike McCune, Head of the Gates Foundation's HIV Frontiers Program, and Dr. Emily Turner, Principal Technologist for the Gates Foundation.

The Gates Foundation's HIV Frontiers Program aims to develop a single-shot cure for HIV within 10 years. This would be an intervention that lowers the viral load enough to stop the disease and its transmission. It would also be affordable and accessible in low-resource settings.

The program is led by Dr. Mike McCune, a physician-scientist who has worked with HIV patients for 40 years and collaborated with Dr. David Baltimore, a pioneer in HIV research. Dr. McCune has experience in both academia and industry, which helps him coordinate different sectors involved in the program. The effort draws upon a link between HIV and SCD, another major health problem in under-resourced communities. SCD is a genetic disorder that affects red blood cells and causes pain, infections, and organ damage affecting 1,000 children a day in sub-Saharan Africa, where half die before age five.



Dr. Mike McCune, Head of the Gates Foundation's HIV Frontiers Program, was a featured speaker at the virtual event on gene therapy for HIV and sickle cell disease hosted by the Science Philanthropy Alliance and the Bill & Melinda Gates Foundation.

The program is exploring two platforms: *in vivo* gene therapy that modifies blood cells to cure both HIV and SCD with a single shot and builds on proven *ex vivo* approaches for SCD. Also, therapeutic vaccination uses protein engineering and mRNA vaccines to produce a T-cell response that suppresses HIV. These are the same breakthroughs that enabled the COVID-19 vaccines from Pfizer-BioNTech and Moderna.

Philanthropy is vital in this effort as it can support basic research and proof-of-concept efforts to convince other investors that the idea is worth scaling up. Philanthropy can also ensure that the work and its application remain focused on having the greatest and most equitable health impact.

If successful, HIV Frontiers promises not only to deliver a cure for a deadly disease but also a platform for further innovation and a model for how philanthropic partnerships can catalyze breakthroughs that advance life-saving scientific discovery.

SPOTLIGHT International Scientific Partnerships

Theme: Funding Discovery Science in Africa

On September 19, 2022, the American Academy of Arts & Sciences and the Science Philanthropy Alliance co-hosted a virtual philanthropy roundtable on the topic of international scientific partnerships, with the theme of funding discovery science in Africa. The roundtable highlighted the American Academy's recent

report, *Global Connections: Emerging Science Partners*. The roundtable was attended by more than 20 representatives from over a dozen leading philanthropic funding organizations.

After opening remarks by Academy President Dr. David Oxtoby, the study co-chairs, Dr. Arthur Bienenstock, Professor Emeritus of Photon Science, Special Assistant to the President for Federal Research Policy and Director of the Wallenberg Research Link at Stanford University, Dr. Peter Michelson, Luke Blossom Professor in the School of Humanities and Sciences, Stanford University, Dr. Shirley Malcom, Senior Advisor, Director of SEA Change, American Association for the Advancement of Science, and Dr. Funmi Olopade, Walter L. Palmer Distinguished Service Professor of Medicine, Professor of Human Genetics, Director, Center for Clinical Cancer Genetics and Global Health, University of Chicago, shared recommendations from the Global Connections-Emerging Science Partners report.



THE CO-CHAIRS MADE SPECIFIC RECOMMENDATIONS FOR FOUNDATIONS:

- 1 Support university collaborations, including exchange programs, and scientific society programs that facilitate global science and expand interactions between scientists in different countries;
- 2 Provide training for lawyers at emerging science partner universities, so these institutions are better positioned to establish MOUs, IP, and other formal agreements; and
- 3 Consider basic science investment for emerging science partners as an indirect but key path toward innovation and economic growth.

A panel discussion was facilitated by Science Philanthropy Alliance President Dr. France A. Córdova with the following panelists: Dr. Amina Abubakar, Director for the Institute for Human Development, Aga Khan University and Kenya Medical Research Institute, Senior Research Scientist, Wellcome Trust Research Programme, Dr. Yaw Agyeman, Adaptive Management and Evaluation Officer, Gordon and Betty Moore Foundation, Dr. Karen Makar, Bill & Melinda Gates Foundation, and Dr. Anne Petersen, Global Philanthropy Alliance.

THE DISCUSSION EMPHASIZED SEVERAL POINTS:

- 1 The importance of philanthropy for strengthening institutions;
- 2 The value of philanthropy for creating pathways that incentivize African scientists to pursue scientific careers in Africa, even after training elsewhere; and
- 3 The role that philanthropy can play in catalyzing African-led scientific efforts.

SPOTLIGHT Science Philanthropy Alliance Funder's Discussion

Human Cell Atlas Conversation

In October 2022, the Science Philanthropy Alliance hosted a funders' discussion to explore the next phase of the Human Cell Atlas (HCA) initiative, which is creating comprehensive reference maps of all human cells. It was an engaging two-part discussion, starting with Dr. Aviv Regev, Executive Vice President, Genentech, Research and Early Development, and Dr. Sarah Teichmann, Head of Cellular Genetics and Senior Group Leader, Wellcome Sanger Institute, highlighting the scientific advances supported by HCA.



First meeting of the Human Cell Atlas team in London, 2016.
Thomas Farnetti/Wellcome, CC BY-ND.

The presentation was followed by a panel discussion with Dr. Jonah Cool, Science Program Officer, Chan Zuckerberg Initiative, Dr. Katrina Gold, Research Lead, Discovery Research, Wellcome, Kim Philbrick McCabe, Executive Director, Klarman Family Foundation, and Dr. Jessica Langer, Program Officer, Helmsley Charitable Trust, sharing their experience in funding the initial stage of HCA. The discussion emphasized the passion and thoughtfulness of funders in our networks and the emerging theme of community building among researchers as well as funders.

SPOTLIGHT Alliance Members' Meeting, December 2022

Theme: Catalyzing Convergence Research

The Science Philanthropy Alliance closed out an eventful 2022 with an in-person members' meeting in Los Angeles hosted by The Kavli Foundation and its President Dr. Cynthia Friend. The meeting featured impactful sessions with a special tribute to departing External Science Advisor Dr. Robert Tjian, Professor of Biochemistry and Molecular Biology at UC Berkeley and former HHMI Director, and a good friend of the Science Philanthropy Alliance. The meeting also included a visit by Dr. Andrea Ghez, Professor of Astrophysics at UCLA and 2020 Nobel prize winner in physics, who had just returned from the Nobel ceremonies in Stockholm.



Science Philanthropy Alliance Advisory Board Members are featured above at the Alliance's December 2022 Member Meeting in Los Angeles at The Foundation Headquarters. Pictured, from left to right, are Science Philanthropy Alliance President Dr. France Córdova, Dr. Claire Pomeroy, President, Albert and Mary Lasker Foundation, Dr. Deanna Gomby, Former President and CEO, Heising-Simons Foundation, Dr. Harvey V. Fineberg, Advisory Board Chair, President, Gordon and Betty Moore Foundation, Elizabeth Good Christopherson, President and CEO, Rita Allen Foundation, Dr. Cynthia M. Friend, President, The Kavli Foundation, Dr. Louis J. Muglia, President and CEO, Burroughs Wellcome Fund, Dr. Daniel Linzer, President, Research Corporation for Science Advancement, and Dr. Adam F. Falk, President, Alfred P. Sloan Foundation.

MEETING HIGHLIGHTS ALSO INCLUDED:

Conversation with Philanthropist Dr. Gary Michelson Philanthropist and inventor Dr. Gary Michelson is one of the hundreds of billionaires who have signed the Giving Pledge and committed to using the majority of their wealth to fund society's most pressing issues. Dr. Michelson joined Dr. Marc Kastner, Emeritus Professor at MIT, and former Science Philanthropy Alliance President, to discuss the importance of science philanthropy and his goal to “make the world a little less unfair.”

Innovative Funding Strategies for Convergence Alliance Board Member and President of the Dana Foundation, Dr. Caroline Montojo moderated a session in which Dr. Adam Marblestone, CEO of Convergent Research, Dr. Amy Bernard, Director of Life Sciences at The Kavli Foundation, and David Sanford, Founder, and CEO of the Hypothesis Fund, discussed new ways to fund scientific research.



Dr. Amy Bernard, Director of Life Sciences, The Kavli Foundation, Dr. Adam Marblestone, CEO, Convergent Research, David Sanford, Founder and CEO, Hypothesis Fund, and Dr. Caroline Montojo, Alliance Advisory Board Member and President, Dana Foundation, are pictured above during the Alliance's December 2022 Member Meeting discussing innovative ways to fund scientific research.

Convergence Across the Public Agencies Science Philanthropy Alliance President Dr. France A. Córdova facilitated a discussion with senior officials from federal science agencies, including Dr. Lyric Jorgenson, Acting Associate Director for Science Policy, National Institutes of Health, Dr. Erwin Gianchandani, Assistant Director of the Directorate for Technology, Innovation, and Partnerships, National Science Foundation, Dr. Jack Kaye, Associate Director for Research of the Earth Science Division, NASA, and Dr. Harriet Kung, Deputy Director for Science Programs, Office of Science, U.S. Department of Energy, to identify how philanthropic organizations and government agencies can work together to advance scientific research.

Webb Telescope Highlights Dr. Marcia Rieke, Professor of Astronomy, University of Arizona, and Principal Investigator for the near-infrared camera on the Webb Telescope, shared with members her experiences leading the development of the instrument and interpreting its unexpected discoveries. Dr. Rieke's presentation included remarkable images from this extraordinary telescope.



Dr. Marcia Rieke, Professor of Astronomy at the University of Arizona, and Principal Investigator for the near-infrared camera on the James Webb Space Telescope, is pictured above sharing her experiences leading the development of the instrument and interpreting its discoveries. Dr. Rieke was a featured speaker during the Alliance's December 2022 Member Meeting at The Kavli Foundation headquarters.

Open Science: Updates from Open Research Funders Group Greg Tananbaum, Director of the Open Research Funders Group, moderated a session on the implications for science philanthropy of a memorandum, Increasing Equitable Access to Federally Funded Research, published by the Office of Science and Technology Policy (OSTP).

THREE KEY CONCEPTS WERE IDENTIFIED:

- 1 Open science is an enabler of the missions that philanthropic funders are interested in supporting;
- 2 There must be collaboration between philanthropic funders and universities, the publishing industry, and government funding agencies; and
- 3 Researchers need support to comply with OSTP's (Office of Science and Technology Policy) memo efficiently and effectively, which is accelerating the need for cultural change in a short amount of time.

Science and Society Grantmaking The Science and Society breakout session featured a panel of funders including Elizabeth Christopherson, President and CEO of the Rita Allen Foundation, Dr. Janet Coffey, Program Director for Science at the Gordon and Betty Moore Foundation, Dr. Khara Ramos, Vice President of Neuroscience Within Society at the Dana Foundation, and Brooke Smith, Director of Science and Society at The Kavli Foundation. Panelists provided examples of how their grantmaking is at the intersection of science and society and shared reflections on the next steps to advance the field.

Measurement, Evaluation, and Learning SIG Co-Chair Dr. Evan Michelson, Program Director, Alfred P. Sloan Foundation detailed the founding and mission of the Measurement, Evaluation & Learning Shared Interest Group (MEL SIG), and presented a review of the 2022 activities and end-of-year survey data.

SPOTLIGHT Science Philanthropy Alliance

DEI SIG Continues Important Progress

Shared Interest Groups (SIGs) are organized collections of individuals who share a common interest or passion and collaborate and are highly beneficial for organizational performance, and enhancing learning, innovation, engagement, diversity, and social capital among their participants and stakeholders.

The first SIG at the Alliance was formed in 2020 in response to the growing interests of private funders related to DEI. Motivated by the belief that gender, racial/ethnic, and other forms of diversity in scientific inquiry are key to scientific excellence, the Alliance DEI SIG seeks to create and sustain a more diverse, equitable, and inclusive set of standards and practices within science philanthropy. The group is currently co-chaired by Dr. Lorelle Espinosa, Program Director, Alfred P. Sloan Foundation, and Craig Wesley, Senior Manager, Diversity, Equity and Inclusion, Simons Foundation.

The Alliance DEI SIG hosted many activities in 2022 aligned with its purpose. One re-occurring activity is knowledge sharing among science philanthropic funders on DEI priorities and work. Throughout 2022, the SIG hosted presentations by leaders from multiple organizations including the Bill & Melinda Gates Foundation, Burroughs Wellcome Fund, Chan Zuckerberg Initiative, Schmidt Futures, Simons Foundation, and Walton Family Foundation.

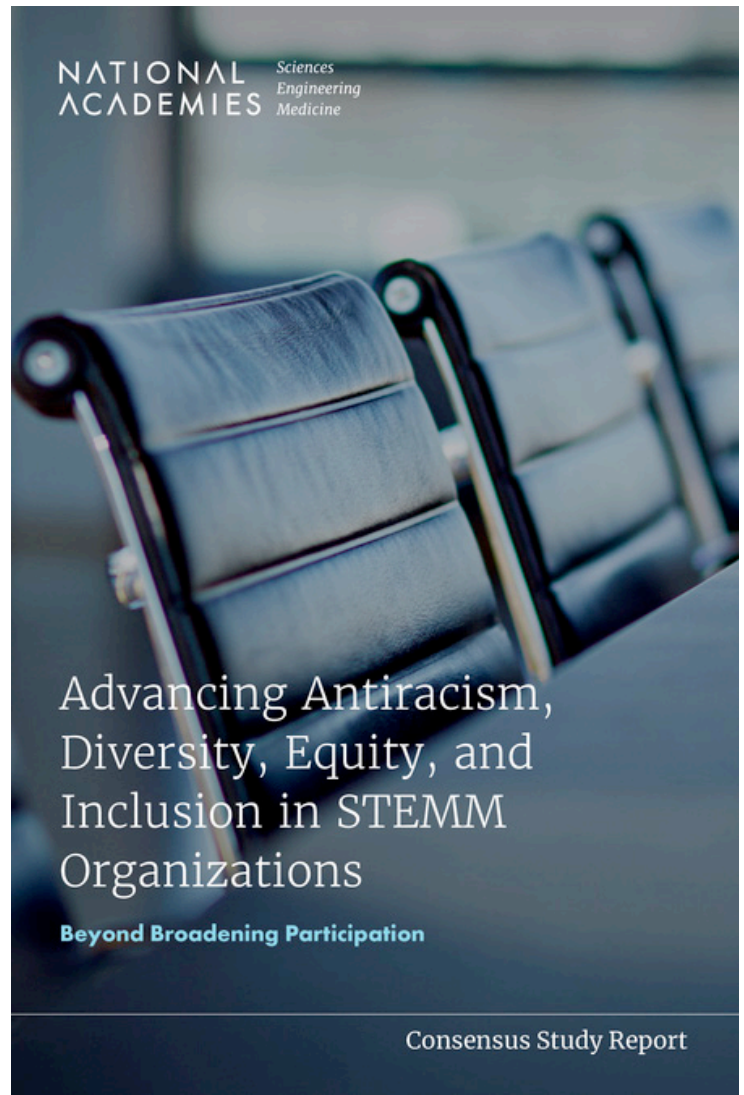
After years of virtual connections, the group finally interacted in person in May in New York City. Hosted by the Simons Foundation, the gathering provided the opportunity for more knowledge sharing and

authentic conversations to drive our collective DEI work.

The Alliance DEI SIG has also facilitated partnerships among science philanthropic funders for impact and effectiveness. One example is the co-funding of the National Academies [consensus study](#) on Advancing Antiracism, Diversity, Equity, and Inclusion in STEMM Organizations (pictured right).

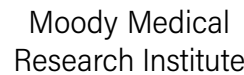
Motivated by funders' interests in this topic, the Alliance also shared outcomes of its analysis on science philanthropy programs to support faculty researchers. The presentation held in August included a conversation on current programmatic and grantmaking trends, including how different science philanthropic organizations are embedding DEI in their work, such as creating programs with a DEI focus or changing the programs' criteria and review process.

The Alliance continues to support its member-led shared interest groups on diversity, equity, and inclusion (DEI), and measurement, learning, and evaluation (MEL). These groups provide opportunities for deeper learning and engagement among members who share common interests and goals. Both groups remain active and have engaged more than a dozen Alliance member organizations each.



Alliance Members

AS OF DECEMBER 2022, EXCLUDING MEMBERS WHO WISH TO REMAIN ANONYMOUS.



Member Spotlight

THOUGHT LEADERSHIP IN 2022

The following are just some of the many examples of Science Philanthropy Alliance members' thought leadership across 2022. All Alliance members are encouraged to share their activities so we may feature them.

SPOTLIGHT Rockefeller Foundation

People Who Inspire Us

Rockefeller Foundation President Dr. Rajiv J. Shah published a blog post on January 20, 2022, titled "*Entering 2022 With People Who Inspire Us*" featuring individuals whose work and advocacy helped advance the Foundation's mission of promoting the well-being of humanity in the 21st century. The individuals are:

Jamnaben Amarsinhbhai Taretiya, a member of the Self-Employed Women's Association (SEWA), an RF grantee. With support from SEWA, the community switched to solar-powered hybrid pumps and experienced a 66% reduction in cost, a huge amount of savings for Jamnaben and her fellow salt-pan workers;

Dr. Tulio de Oliveira, who led scientists at Stellenbosch University's Centre for Epidemic Response and Innovation (CERI) and helped the world learn of the new Omicron variant. Stellenbosch University had received an RF grant that helped them establish CERI and empowered the team to sequence the virus, identify a potential variation, confirm its existence, share the data, and sound the alarm;

Valarie King-Bailey, CEO of OnShore Technology Group, a Black-owned, Chicago-based company that offers services to test and validate corporate software systems. Drawing on decades of international experience in the life sciences technology industry, Valarie founded OnShore in 2004. By the time COVID-19 hit, OnShore had a large roster of pharmaceutical and healthcare clients, including Moderna, so their business took off during the pandemic;

Amy L. Blouin who founded the Missouri Budget Project in 2003, which RF has supported with unrestricted funds. The nonprofit promotes fiscally responsible public policies that make opportunity universal for all Missourians, particularly the most vulnerable, who often do not have a voice in policy decisions. In the spring of 2021, Amy and the Missouri Budget Project saw their decades of hard work pay off when their state passed an EITC; and

Jehane Akiki, Managing Director of Farms Not Arms that brings people together to build a sustainable farm school in Lebanon which has one of the largest refugee populations per capita and is experiencing an economic crisis making a third of its population food insecure. The farm school aims to make the country more self-sufficient by promoting regenerative agricultural skillsets and linking participants, both Lebanese and refugees, to unused lands to create an abundance of fresh food, ensure better income, and bring down market prices.



Image from Rockefeller Foundation President, Dr. Rajiv J. Shah's Blog "*Entering 2022 With People Who Inspire Us*" (Left to Right: Jamnaben Amarsinhbhai Taretiya and Dr. Tulio de Oliveira)

SPOTLIGHT Chan Zuckerberg Initiative

Announces Scientific Team for Advanced Biological Imaging

On July 26, 2022, The Chan Zuckerberg Initiative (CZI) announced the founding scientific team of the Chan Zuckerberg Institute for Advanced Biological Imaging, a new research center where disciplines will come together to develop revolutionary new imaging hardware and software tools to provide comprehensive views of biological systems in their native context. The CZ Imaging Institute will be led by:

Dr. David Agard, Founding Scientific Director, Professor, Departments of Biochemistry & Biophysics and Pharmaceutical Chemistry, UC San Francisco;

Dr. Bridget Carragher, Founding Technical Director, Co-Director, Simons Electron Microscopy Center, New York Structural Biology Center; Adjunct Professor, Columbia University; Founder and Chief Technology Officer, Nanolmaging Services, Inc.; and

Clint Potter, Founding Technical Director, Co-Director, Simons Electron Microscopy Center, New York Structural Biology Center; Adjunct Professor, Columbia University; Founder and Chief Technology Officer, Nanolmaging Services, Inc.

As an extension of the CZI Imaging program, the institute will ensure broad access to new technologies through a visiting scientist program and disseminate tools to benefit the entire imaging field.

SPOTLIGHT Sloan Foundation

Funding Powers Scientific Research

The National Center for Supercomputing Applications (NCSA) is leading one project and collaborating with another that received funding from the Sloan Foundation Technology program, which supports innovative tools and technologies for scientific research.

The first project, led by NCSA Chief Scientist Dr. Daniel S. Katz, will study how policy can be used to increase the sustainability and impact of research software in the scholarly research community. The project is part of the United States Research Software Sustainability Institute (URSSI), which aims to bring together software developers, users, and stakeholders.

The second project, run by the American Geophysical Union, will develop processes by which publishers would accept, review, and publish computational notebooks as peer-reviewed scholarly publications instead of traditional papers. NCSA Software Associate Director Dr. Kenton McHenry will serve on the steering committee for this project, which builds off the San Diego Supercomputer Center and NCSA's EarthCube office activities that utilized an annual call for notebooks as peer-reviewed scholarly objects to more practically document and create more reusable software being developed within the geoscience community.



Chan Zuckerberg Institute for Advanced Biological Imaging Founding Directors Bridget Carragher and Clint Potter. Photo courtesy of CZI.

SPOTLIGHT The Lasker Foundation

2022 Lasker Award Recipients Announced

In September 2022, the Lasker Foundation announced the winners of its 2022 Lasker Awards, which recognize outstanding contributions to biomedical research and public service. The awards are considered among the most prestigious honors in science and medicine. The winners were:

Lasker Basic Medical Research Award: Dr. Richard O. Hynes, Daniel K. Ludwig Professor for Cancer Research; Intramural Faculty, Koch Institute; Investigator, Howard Hughes Medical Institute, Dr. Erkki Ruoslahti, Distinguished Professor Emeritus, Sanford Burnham Prebys Medical Discovery Institute, and Dr. Timothy A. Springer, Latham Family Professor, Professor of Biological Chemistry and Molecular Pharmacology, Professor of Medicine, Harvard Medical School, Principal Investigator, Program in Cellular and Molecular Medicine, Division of Hematology/Oncology, Department of Medicine, Boston Children's Hospital, for discovering integrins, key mediators of cell-matrix and cell-cell interactions in physiology and disease;

Lasker~DeBakey Clinical Medical Research Award: Dr. Yuk Ming Dennis Lo, Associate Dean (Research), Faculty of Medicine, Director of the Li Ka Shing Institute of Health Sciences, Chairman of the Department of Chemical Pathology, Faculty of Medicine, Li Ka Shing Professor of Medicine, Professor of Chemical Pathology, Associate Director, State Key Laboratory in Oncology in South China, for discovering fetal DNA in maternal blood, leading to noninvasive prenatal testing for Down syndrome; and

Lasker~Bloomberg Public Service Award: Dr. Lauren Gardner, Alton and Sandra Cleveland Professor, Department of Civil and Systems Engineering, Johns Hopkins University, Whiting School of Engineering, for creating the COVID-19 Dashboard, which sets a new standard for disseminating authoritative public health data in real time.

The awards carry an honorarium of \$250,000 for each category and were presented at a virtual ceremony on November 5, 2022, celebrating the spirit of innovation and the impact of science on human health.

SPOTLIGHT RCSA, Heising-Simons Foundation, & Kavli Foundation

Funding Awards Support Origins and Detection of Life Beyond Earth

Eight teams of early-career researchers have won awards in the second year of *Scialog: Signatures of Life in the Universe*, a program that supports interdisciplinary collaborations to explore the origins and detection of life beyond Earth. Each researcher will receive \$50,000 to pursue their research projects, which range from developing new instruments and methods to studying extreme environments and biosignatures. The awards are funded by the Research Corporation for Science Advancement (RCSA), the Heising-Simons Foundation, and The Kavli Foundation.



The program is based on the Scialog model, which combines dialog and collaboration among scientists who have not previously worked together. The awardees were selected by a group of distinguished facilitators. The program aims to foster a community of innovative thinkers who can address the fundamental questions of life in the universe.

SPOTLIGHT Gordon and Betty Moore Foundation

Announce 2022 Moore Inventor Fellows

The Gordon and Betty Moore Foundation announced the 2022 cohort of **Moore Inventor Fellows**, who are scientist-inventors working on new tools and technologies to advance scientific discovery, environmental conservation, and patient care. The five fellows will receive \$825,000 each over three years to develop their inventions, which include novel light sources, sensors, therapies, and refrigerants. The fellowship celebrates the spirit of innovation and the legacy of Moore's Law, the prediction that anticipated the exponential growth of computing power made by Gordon Moore, Co-Founder of Intel and the foundation.

The foundation will support 50 fellows over 10 years, starting in 2016, with a total investment of \$34 million. The fellows are selected through a rigorous nomination and review process that involves experts from academia, industry, and the foundation.



2022 Moore Inventor Fellows left to right (Rebecca Pompano, David Burghoff, Amir Safavi-Naeini, Stefanie Sydlik, Jarad Mason)

SPOTLIGHT David & Lucile Packard Foundation

Outlines Three Goals to Guide Its Important Work

In November 2022, the David & Lucile Packard Foundation announced that it reimagined its future considering the multiple, intertwined crises that are impacting the world today. The foundation has announced three overarching, interdependent goals to guide its work: Protect and Restore the Natural World, Invest in Families and Communities, and Build Just Societies. These goals reflect the foundation's strong commitment to addressing the root causes of the challenges facing people and the planet, and to collaborate with partners who share its vision of a just and equitable world where both people and nature flourish.

The foundation's strategic planning process was informed by its experience, partner input, and the legacy of its founders who believed in the need to evolve and adapt to an ever-changing world. Much of what the foundation funds will remain the same in pursuit of the goals, continuing its deep commitments to enabling a carbon-neutral future, a healthy ocean, scientific innovation and discovery, vibrant families, and communities, and securing women's reproductive health and rights. What will change is how the foundation advances those core issues, with additional new focus areas and approaches.



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Alliance Making News

EXECUTIVE LEADERSHIP IN 2022

The Science Philanthropy Alliance had a remarkable year of recognition, engagement, and influence in 2022. In this section, we highlight some of the honors we received, the events we participated in, and the coverage we garnered in leading science publications.

SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdoba

Recognized with Research!America's Geoffrey Beene Foundation Builders of Science Award

On March 2, 2022, Science Philanthropy Alliance President Dr. France A. Córdoba was honored with the Geoffrey Beene Foundation 2022 Builders of Science Award by Research!America. This prestigious award recognizes individuals who have made significant contributions to advancing scientific research and innovation in the U.S. Research!America is a nonprofit alliance that advocates for science, discovery, and innovation to achieve better health for all.

As part of a special discussion series with Research!America 2022 Advocacy Award honorees, Dr. Córdoba spoke with Research!America CEO Mary Woolley about her tenure as director of the National Science Foundation (NSF), the role of private philanthropy in medical research, the importance of mentorship, and what inspired her scientific journey.



Science Philanthropy Alliance President Dr. France A. Córdoba is featured above during a Research!America event as the Geoffrey Beene Foundation 2022 Builders of Science Award honoree.

SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdoba

Speaks at SXSW Festival on “The Future of Healthcare Technology: How Philanthropy Views Investment & Risk”

Speaking at the SXSW Festival in Austin, Texas in March 2022, Dr. France A. Córdoba discussed the nexus between healthcare technology and philanthropy. Dr. Córdoba's presentation was titled, “*The Future of Healthcare Technology: How Philanthropy Views Investment & Risk.*” Dr. Córdoba outlined how the Alliance helps philanthropists by connecting with other funders, advising the Alliance's science experts, developing mission, vision, and strategy, creating partnerships, describing funding model structures, identifying gaps in research funding, informing about R&D trends, and convening workshops and events.



THE PRESENTATION OFFERED THE FOLLOWING CONCLUSIONS:

- 1 Future technology often has its origins in past basic research. It is important to invest in early-stage research, and to fund the entire spectrum from insight to innovation because knowledge generation is a long game;
- 2 Investing in new services and innovative approaches to care is as critical to the future of healthcare as investing in new devices;
- 3 All sectors – government, industry, universities, and philanthropy make investments, take risks, and are a crucial part of the research ecosystem. Strategic partnerships among them leverage the assets of each;
- 4 Philanthropy can invest with a large amount of risk, identify underfunded areas of research at the earliest stages of research, and invest in people; and
- 5 Keep an eye on what – and whom – philanthropy is investing in, most Nobelists in science have cited philanthropy as crucial to their success.

SPOTLIGHT Science Philanthropy Alliance Associate Advisor Dr. Daren Ginete

Civic Science Sparks With ... The Science Philanthropy Alliance

In March 2022, Elizabeth Christopherson, President and CEO of Rita Allen Foundation and Science Philanthropy Advisory Board member, spoke with Science Philanthropy Alliance President Dr. France A. Córdova and Science Philanthropy Alliance Fellow Dr. Daren Ginete to learn more about what drives them and where they are going next in their work.

The Civic Science Fellows are emerging leaders from diverse demographic, cultural, and professional backgrounds. They are thought leaders, bridge builders, change agents, and communicators working to learn about community priorities and scientific research and bring those worlds together on equal footing to create fundamentally new ways of solving problems. The Fellows spend 18 months experimenting with new evidence-based approaches in science communication and community engagement to co-create strong, diverse, and inclusive connections between science and civic life.



Science Philanthropy Alliance Associate Advisor Dr. Daren Ginete is working to build the future of scientific discovery, including increasing opportunities for scientists from diverse backgrounds.

The Civic Science Fellows spend 18 months experimenting with new evidence-based approaches in science communication and community engagement to co-create strong, diverse, and inclusive connections between science and civic life.

Both Dr. Córdova and Dr. Ginete highlighted how curiosity and “ah-ha” moments of discovery provide them with a deep connection to the natural world and motivation to increase that wonder through connection with others. “I am motivated by curiosity, by an overwhelming fascination with Nature’s beauty and complexity, and by the desire to have an impact,” Dr. Córdova said. “These lead me in many directions: curiosity and fascination about Nature leads me to be an investigator, a detective; the desire to make an impact leads me to study how and why things work—and that often makes me want to do things differently to achieve success.”

Dr. Louis Muglia, President and CEO of the Burroughs Wellcome Fund, and Science Philanthropy Alliance Advisory Board Member, and Dr. Cyndi Atherton, Director of Science at the Heising-Simons Foundation, were also quoted in the piece that [can be viewed here](#).

Partner funders of the Civic Science Fellows Program include the Alfred P. Sloan Foundation, the Brinson Foundation, Burroughs Wellcome Fund, Dana Foundation, the David & Lucile Packard Foundation, Doris Duke Foundation, Gordon and Betty Moore Foundation, Heising-Simons Foundation, John Templeton Foundation, The Kavli Foundation, Lyda Hill Philanthropies, Rita Allen Foundation, and the Science in Society Funder Collaborative.

SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdova

Authors an Article Featured in Science

Science Philanthropy President Dr. France A. Córdova authored an article “*New goals for science philanthropy*,” in Science’s April 8, 2022, edition on how socially responsible philanthropy can help address global challenges by supporting discovery science.

“Societally responsible philanthropy recognizes the need to improve the world through funding science. Foundation leaders are taking bolder actions. The result will be a more responsive science that pushes the frontiers of knowledge in service of humanity.”

– France Córdova, President of the Science Philanthropy Alliance

Dr. Córdova highlighted some of the new perspectives and approaches that philanthropists are bringing to solving the world’s problems, such as supporting high-risk, high-reward research, fostering interdisciplinary collaboration, and increasing equity and inclusion in funding.

SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdova

Speaks at NASEM Research Roundtable Webinar: 2022 U.S. Science & Engineering Indicators

On April 20, 2022, Science Philanthropy President Dr. France A. Córdova participated in the National Academies of Sciences, Engineering, and Medicine’s (NASEM) Government-University-Industry Research Roundtable webinar. The webinar discussed the National Science Board’s 2022 U.S. Science and Engineering Indicators report. A copy of the report is [available here](#).



Prepared every two years by the National Science Foundation's National Center for Science and Engineering Statistics, the report provides information on the state of the U.S. science and engineering enterprise over time and within a global context. The indicators presented in the report are quantitative representations relevant to the scope, quality, and vitality of the science and engineering enterprise.

During the webinar, Alliance President Dr. France Córdova joined Dr. Julia Phillips, Executive Emeritus at Sandia National Laboratories and Chair of the National Science Board's Committee on National Science and Engineering Policy, and discussed the indicators' data within the context of philanthropic contributions to science.

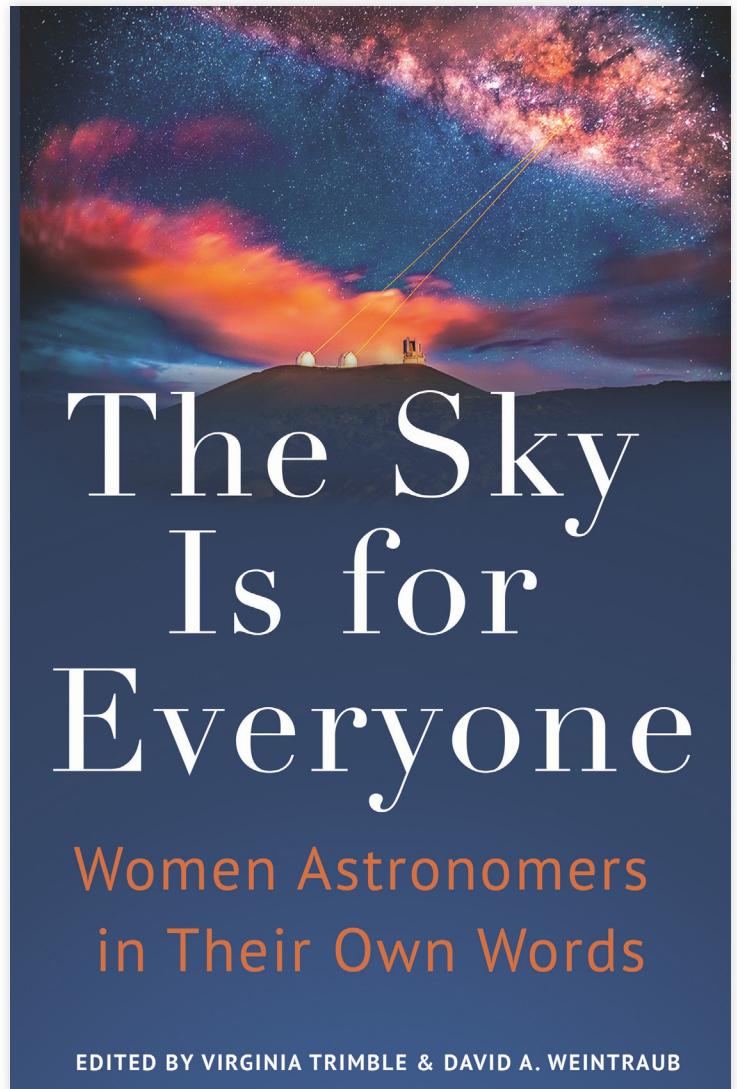


SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdova

Authors a Chapter in [The Sky Is for Everyone](#)

Published in 2022, [The Sky Is for Everyone: Women Astronomers in Their Own Words](#), edited by Virginia Trimble and David A. Weintraub, is a collection of personal essays written by pioneering women astronomers from different countries. Contributors share how they overcame obstacles and made an impact on modern astronomy. The editors show how women faced discrimination and exclusion in astronomy until the late twentieth century - and how they fought for equality and recognition. Science Philanthropy Alliance President Dr. France A. Córdova is a contributor to the book, authoring chapter 17 *The Learn'd Astronomer Discovers the Policy World*.

In the book, Dr. Córdova chronicles her amazing journey: from living in a pueblo in Oaxaca, Mexico near the famed archaeological ruins of Mitla studying the sociology of bilingualism, to admittance to Caltech's renowned astrophysics program and earning her Ph.D., to Los Alamos National Laboratory, NASA Chief Scientist, Vice Chancellor for Research at UC Santa Barbara, President of Purdue University, Director of the National Science Foundation, to President of Science Philanthropy Alliance. The chapter traces Dr. Córdova's incredible career of



scientific and self-discovery that has inspired countless women scientists, researchers, innovators, change makers, and boundary breakers to reach for and realize their dreams.

Dr. Córdova closes the chapter where her journey began: imagining the great, undiscovered frontier awaiting exploration: *“I think of the poet Emily Dickinson’s words, ‘The Brain is wider than the sky...’ We can imagine beyond what we see. There is always another ‘continent’ to explore. And ‘I got to light out for the territory ahead of the rest (Huck Finn).”*

Poignant, powerful, and personal, The Sky Is for Everyone celebrates the achievements and challenges of women astronomers and encourages future generations of women scientists.

SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdova

Speaks at Science Summit at the United Nations General Assembly

On September 22, 2022, Science Philanthropy Alliance President Dr. Córdova delivered a keynote speech at the Science Summit at the United Nations General Assembly. The summit was part of the UN’s 76th session displaying the role of science in achieving the Sustainable Development Goals (SDGs).

In her address *“International Collaboration for Scientific Discovery and Sustainable Development,”* Dr. Córdova highlighted the importance of international collaboration in scientific discovery and sustainable development. The objective of the Science Summit was the development and launch of science collaborations to demonstrate global science mechanisms and activities to support the attainment of the UN Sustainable Development Goals.



“... science is a global endeavor, and many of the most important issues that humanity faces can only be solved through international collaboration. The benefits of international engagement are many, including learning from different models, expanding capacity to accelerate innovation, and collaboratively addressing global challenges.” – France Córdova, President of the Science Philanthropy Alliance

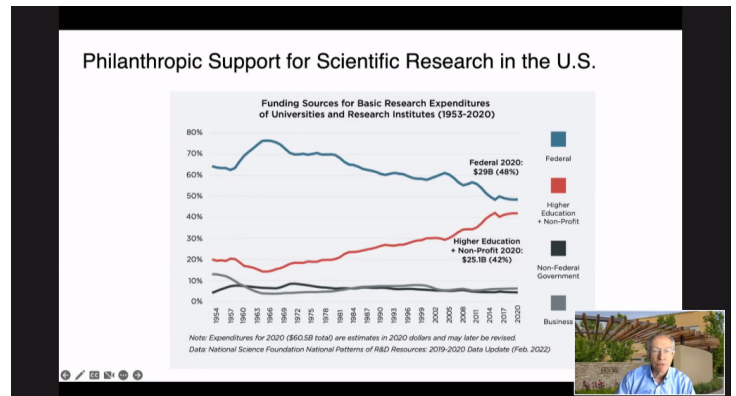
SPOTLIGHT Science Philanthropy Alliance Advisory Board Chair Dr. Harvey Fineberg

Delivers a presentation at NASEM: Philanthropy in Support of Science

Harvey V. Fineberg, M.D., Ph.D., President, Gordon and Betty Moore Foundation and Alliance Advisory Board Chair, delivered a presentation at the September 2022 National Academies of Sciences, Engineering and Medicine (NASEM) in collaboration with The Kavli Foundation, the Alfred P. Sloan Foundation, and Issues in Science and Technology’s *“Endless Frontier Symposium 2022: Research and Higher Education Institutions for the Next 75 Years.”*

The symposium brought together experts and leaders from across the world to consider transformations needed from research and higher education institutions in the next 75 years to better address complex, global challenges like the impacts of pandemics, advancing innovation, building, and nurturing capacity.

Dr. Fineberg's presentation, *Philanthropy in Support of Science*, addressed philanthropic support for scientific research in the U.S., rising global wealth and philanthropic potential, global giving, comparative advantages of philanthropy for science, and an overview of philanthropic investment in people and ideas.



Dr. Harvey V. Fineberg, President, Gordon and Betty Moore Foundation and Alliance Advisory Board Chair, is pictured above delivering his presentation at the September 2022 National Academies of Sciences, Engineering and Medicine (NASEM) meeting.

THE DISCUSSION EMPHASIZED SEVERAL POINTS:

- 1 Philanthropy is a large and growing source of funding for science;
- 2 Accumulated global wealth creates a high potential for future philanthropy; and
- 3 Philanthropy has the advantages of independence, the spirit of collaboration, appetite for risk, speed and agility, varied interests, and investment in people, including those from under-represented groups and at critical career stages.

SPOTLIGHT Science Philanthropy Alliance President Dr. France A. Córdova and Dr. Marc Kastner, Alliance External Science Advisor, and Former Alliance President

Quoted in *Physics Today* on the Importance of Philanthropy Funding Discovery Science

Dr. France A. Córdova, President of Science Philanthropy Alliance, and Dr. Marc Kastner, Alliance External Science Advisor, and former Alliance President, were quoted in an article in the November 2022 edition of *Physics Today*, *Philanthropy plays a growing role in funding US physical sciences*. The article highlighted how philanthropy is becoming a key source of funding for discovery science. It also acknowledged the contributions of Alliance Members such as the Heising-Simons Foundation, Simons Foundation, Gordon and Betty Moore Foundation, Kavli Institute, and the Alfred P. Sloan Foundation to the physical sciences.



Advisory Board



Elizabeth Good Christopherson
President and CEO,
Rita Allen Foundation



France A. Córdoba, Ph.D.
President and Ex Officio
Board Member,
Science Philanthropy Alliance



Adam F. Falk, Ph.D.
President,
Alfred P. Sloan Foundation



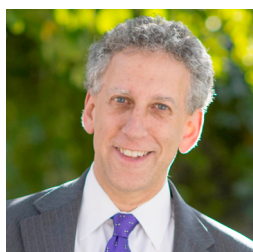
**Harvey V. Fineberg,
M.D., Ph.D.**
Alliance Board Chair President,
Gordon and Betty Moore
Foundation



Cynthia M. Friend, Ph.D.
President,
The Kavli Foundation



Deanna Gomby, Ph.D.
President and CEO,
Heising-Simons Foundation



Daniel Linzer, Ph.D.
President, Research
Corporation for Science
Advancement



Caroline Montojo, Ph.D.
President,
Dana Foundation



Louis J. Muglia, M.D., Ph.D.
President and CEO,
Burroughs Wellcome Fund



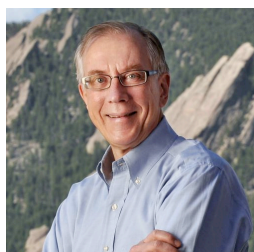
Claire Pomeroy, M.D., M.B.A.
President, Albert and
Mary Lasker Foundation



David Spergel, Ph.D.
President,
Simons Foundation

External Science Advisors

In January 2022, the Science Philanthropy Alliance welcomed Dr. Thomas R. Cech, former president of the Howard Hughes Medical Institute and Nobel Prize recipient, as a new Alliance External Science Advisor. We also said farewell to two, trusted longtime advisors and dear friends who departed the Alliance: Dr. Robert Tjian, (aka “Tij”), a Biochemist at the University of California at Berkeley, former President of Howard Hughes Medical Institute (HHMI), and an Alliance Founder, and Dr. David Baltimore, Biologist, Nobel Laureate, and President Emeritus and Distinguished Professor of Biology at the California Institute of Technology (Caltech). We are grateful to Tij and David for their countless contributions that helped advance the Alliance’s important work!



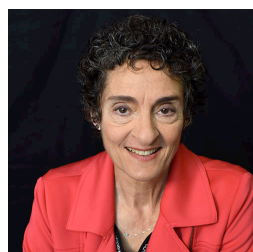
Thomas R. Cech, Ph.D.
Distinguished Professor of
Biochemistry, University of
Colorado Boulder



Margaret Leinen, Ph.D.
Director of Scripps Institution
of Oceanography and Vice
Chancellor for Marine Science,
University of California, San
Diego



Fleming Crim, Ph.D.
John E. Willard and Hilldale
Professor of Chemistry
Emeritus, University of
Wisconsin - Madison



Carla J. Shatz, Ph.D.
Sapp Family Provostial Professor
of Biology and Neurobiology and
the Catherine Holman Johnson
Directorship of Bio-X, Stanford
University



Marc Kastner, Ph.D.
Donner Professor of Physics
Emeritus, MIT; Adjunct
Professor of Physics,
Stanford University



Shirley M. Tilghman, Ph.D.
President Emerita and
Professor of Molecular
Biology and Public Affairs,
Princeton University

Staff

The Alliance wishes to thank Rachel Jackson, Jason Maier, and Diane Matar who helped make 2022 a successful year. Thank you to Josh Fitzpatrick who worked on this report.

France A. Córdoba, Ph.D.

President & Ex Officio Board Member

Elyse A. Hope, Ph.D.

Strategic Initiative Manager

Bishakha Mona, Ph.D.

Associate Advisor

Elenoa Fuka

Assistant Director of Operations

Kate E. Lowry, Ph.D.

Strategy Director

Mary Thurston

Program Manager, Office of the President

Daren Ginete, Ph.D.

Associate Advisor

Kate McCarrel

Program Associate

Elizabeth Weiss

Director, Philanthropic Advising

Andrew Golnar, Ph.D.

Fellow

Sue Merrilees

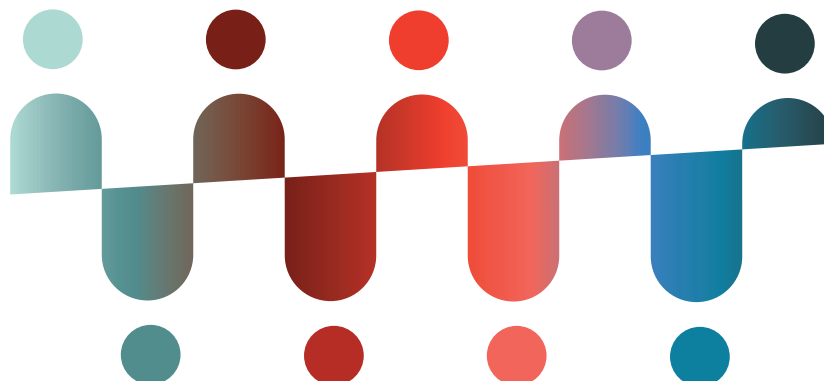
Senior Director, Philanthropic Advising

SCIENCE PHILANTHROPY ALLIANCE'S COMMITMENT TO ADVANCING DIVERSITY, EQUITY, AND INCLUSION (DEI)

We are committed to improving the impact and effectiveness of science philanthropy by advancing DEI in our work. To support our members and the broader science philanthropy community in their DEI journey, we will:

- 1 Provide a platform for shared DEI learning among members;
- 2 Facilitate sharing promising practices among members and to broader audiences; and
- 3 Offer skill-building training, workshops, and other opportunities for philanthropists and foundations.

WE INVITE YOU TO JOIN US IN THIS IMPORTANT WORK.



Message from the Science Philanthropy Alliance

AS WE REFLECT ON 2022, WE ARE FILLED WITH GRATITUDE AND ADMIRATION FOR OUR MEMBERS, PARTNERS, AND STAFF WHO HAVE SHOWN REMARKABLE RESILIENCE AND DEDICATION TO ADVANCING DISCOVERY SCIENCE IN THE FACE OF UNPRECEDENTED CHALLENGES.

We are proud of the achievements and impact that we have made together, and we are inspired by the opportunities and discoveries that lie ahead. We remain committed to our mission of advancing scientific discovery through visionary philanthropy.

We thank you for your trust and collaboration, and we look forward to working with you throughout 2023 and beyond.

“What advantages do we hope to gain (from climbing mountains)? Naturally, there is the pleasure we get from the climbing process itself and from our victories, but as well as the delights of exercise in a mountain environment, there is also the process, coming every time as a surprise, of self-discovery deepening a little further with every climb: who we are, how far we can go, what is our potential, where are the limits of our technique, our strength, our skill, our mountaineering sense: discoveries whose acceptance means that, if necessary, we may turn back and return another time, several times if need be. ‘Tomorrow is a new day’.”—Gaston Rebuffat, French alpinist, first to climb all six of the great north faces of the Alps



Science Philanthropy Alliance President Dr. France A. Córdova (second from right) and colleagues are pictured above on Mount Kilimanjaro in Tanzania on August 12, 2022.



SCIENCE
PHILANTHROPY ALLIANCE

info@sciphil.org

sciphil.org



[@SciPhilOrg](https://www.instagram.com/SciPhilOrg)

