



SHAPING THE  
FUTURE OF  
SCIENCE FOR OVER  
200 YEARS

ANNUAL REPORT

FISCAL YEAR 2023



# A Year of Shaping the Future of Science



In the three years since I assumed the leadership of The New York Academy of Sciences, we, like many other non-profits, have had our challenges. But it's also been an important opportunity to take a step back and assess our work and our mission. As we have emerged from the acute challenges of the pandemic – ranging from the public's health to our financial health – we have been working to align all of our activities and programming with the goal of helping to shape the future of science to better serve the public good.

Our first priority in the rebuilding process has been to reinstate the Academy's portfolio of programs with a full schedule of in-person conferences covering a broad range of work in the sciences, from our traditional strengths in the life sciences to emerging and important fields such as artificial intelligence. Accordingly, a highlight of the last year was a two-day "AI in Healthcare" conference attended by more than 200 researchers.

We continue to offer streaming options for those

unable to attend our conferences, but being able to network with colleagues and prospective collaborators has always been a hallmark of the value proposition of Academy membership. The positive feedback from Academy members and conference attendees of these in-person programs reaffirms the value of such events.

We launched two new recognition programs: the Tata Transformation Prize and The Leon Levy Scholarships in Neuroscience. We also recruited the three post-doctoral scholars who are the first cohort of Fellows for the Artificial Intelligence and Society Fellowship program. These programs not only support the important work of scientists in fields such as applied science, neuroscience, and artificial intelligence, they also increase our access to expertise in these fields for a range of other purposes.

And we celebrated the accomplishments of the Blavatnik Regional Awards for Young Scientists honorees at a glittering Gala celebration attended by more than 300 Academy friends and supporters.



I also had the privilege of presenting (virtually) The New York Academy of Sciences Award for Lifetime Achievement for Communicating Science to award-winning actor and science enthusiast Alan Alda, who founded Stony Brook University's Alan Alda Center for Communicating Science.

Despite all the challenges of our times, this is an extraordinarily important moment in the history of scientific achievement and discovery. We saw the lightning-fast development of the COVID-19 vaccines, the exponential growth of AI in areas related not just to business and media but also to scientific pursuits, explorations to Mars and other bodies in our solar system, extraordinary advances in synthetic biology, green technologies, and nuclear fission. But we've also seen growing levels of distrust in and skepticism about science, the result of political polarization, rampant conspiracy theories, and the impact of social media through the spread of disinformation. Accordingly, we have stepped up our efforts to provide professional development opportunities for young researchers to learn how to best communicate the value of science.

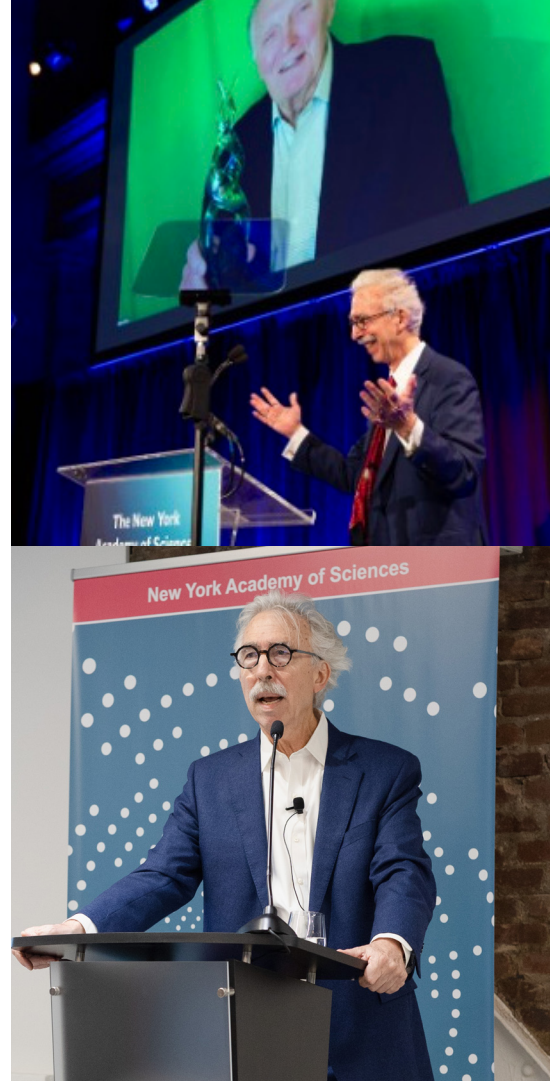
Through these activities, the Academy is seeking to fulfill its mission to serve the public good by forcefully embracing the future and moving beyond "science-as-usual." This is a time when science is

urgently needed to solve some of our major global challenges, from those related to climate change to those having to do with disease and public health. And yet this is a time when we need also to ensure that the public retains confidence in the ethical and responsible conduct of science.

We have an important role to play through everything we do, from publishing scientific research to convening scientific conferences, from administering awards to hosting fellows, from using our scientific networks to offer advice to preparing for the next world crisis, from providing educational opportunities for young scientists to responding to the need to use the best of science to guide policy deliberations and decisions. That is why I am steadfastly committed to working with all of you to ensure that The New York Academy of Sciences continues its vitally important work as one of the premier scientific societies in the world today.



**Nicholas B. Dirks**  
President and CEO  
The New York Academy of Sciences





# A Year of Transition and Growth

The New York Academy of Sciences resumed a full schedule of in-person conferences including our annual Gala attended by more than 300 guests from the scientific and corporate communities.

Academy president and CEO, Nicholas Dirks, presented (virtually) The New York Academy of Sciences Award for Lifetime Achievement for Communicating Science to Alan Alda, award-winning actor and founder of the Stony Brook University's Alan Alda Center for Communicating Science.



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# The New York Academy of Sciences in the News

The New York Academy of Sciences continues to be a trusted story source for reporters from a wide range of media outlets. Highlights include:

## **GOTHAMIST – June 27, 2023**

How NYC hospitals are using artificial intelligence to save lives – The New York Academy of Sciences mentioned by reporter Jaclyn Jeffrey-Wilensky.

## **Project-Syndicate – February 9, 2023**

Rebuilding Trust in Science by Nicholas B. Dirks - Opinion piece.

## **Fast Company, 2023**

World Changing Ideas – The International Science Reserve (ISR) is Honorable Mention in the list of Fast Company's 2023 World Changing Ideas Awards, Rapid Response honorees.

## **Crisis Response Journal – July 2022**

The leading global information resource on human-induced disasters or natural disasters wrote about ISR's first scenario-planning exercise.

## **Chalkbeat New York – May 19, 2023**

Reporter Julian Shen-Berro wrote about the Scientist-in-Residence project at Mark Twain School in Brooklyn.

## **New Scientist – 23 May 2023**

The New York Academy of Sciences mentioned as host for "Targeting Molecular Mechanisms of Aging" symposium.

## **STATNews – May 26, 2023**

Reporter Mario Aguilar included quotes from "The New Wave of AI in Healthcare" conference and mentioned both Mount Sinai's Icahn School of Medicine (ISMMS) and The New York Academy of Sciences.

## **SCIENMAG – June 14, 2023**

The New York Academy of Sciences names first 10 Leon Levy Scholars in Neuroscience.

## **WRHU-FM (88.7) – June 26, 2023**

Brooke Grindlinger, Ph.D., Chief Scientific Officer, was interviewed about the importance of science communication for "Let's Talk PR & More!"

## **CITY & STATE NEW YORK – June 26, 2023**

Nicholas B. Dirks named "Innovator": The 2023 Above & Beyond: Innovators - City & State New York.

**The Blavatnik Awards for Young Scientists** received more than two dozen media hits from outlets in the United States, United Kingdom, and Israel.

# International Science Reserve

**Science Unusual Series Brings Together Diverse Voices.** During the past fiscal year, the ISR continued to work towards the long-term goal of expanding its global network. Ongoing communications and outreach activities combined with sophisticated messaging, paid media, social media campaigns, and targeted ad campaigns in scientific publications, including outreach to researchers in specific domains, such as data and climate science, continue to attract new network members. Highlights include:

- Acquisition of New Data Resources through the extension of IBM's Geospatial Discovery Network (GDN).
- Hosting of a series of webinars intended to help participants consider a variety of issues in scientific crisis response, including specific scenarios, technological tools, recognized best practice, and assessments of gaps and challenges.
- Hosted panel at UN General Assembly (UNGA) Science Summit in September 2022 titled "Sustainable Development Goals (SDG) Damage Control: Trans-Border Scientific Cooperation Through the ISR."
- IBM Climate Summit in January 2023, which brought together leaders from academia, public and governmental sectors, and industry for an open exchange on the challenges, solutions, and technology innovations required to unlock the massive potential of climate data and information.
- Led Adda Bozeman Lecture at Sarah Lawrence College on "The Perils and Possibilities of a Global Agenda for the Climate Emergency" in April 2023, on why research on climate solutions must take into account the human rights of people affected by science policy decisions and new technologies.
- Hosted World Bank panel on "Measuring Development and Mitigating the Risks and Impacts of Climate Change" on how public and private sectors can better collaborate across disciplines and sectors to prepare for and overcome multiple barriers and inequities to conduct applied research on the climate crisis and related disasters.

## ISR AT A GLANCE:



**6,000+**  
scientists in ISR's network



**32+**  
disciplines



**100+**  
countries represented



of scientists want to  
contribute to research  
outside their focus



of countries represented  
are from the southern  
hemisphere



# Shaping the Future of Life Science Research

During the past fiscal year, The New York Academy of Sciences restored many of its popular in-person events with high-profile speakers, which attracted hundreds of researchers from both domestic and international institutions.

**Eleventh Cooley's Anemia Symposium** (*October 17-19, 2022*) The Eleventh Cooley's Anemia Symposium represented the largest global gathering of thalassemia experts. Noteworthy Speakers included: Alan R. Cohen, MD, Children's Hospital of Philadelphia, and Giuliana Ferrari, PhD, Università Vita-Salute San Raffaele.

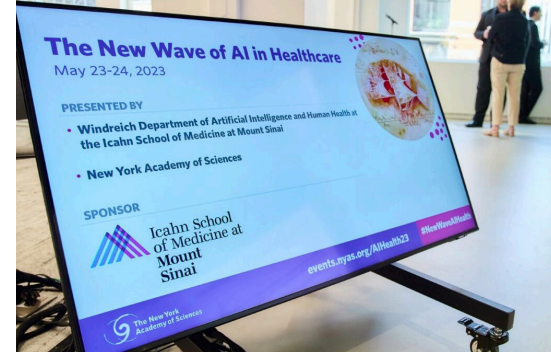
**The Enduring Enigma of the Mind – Evening Series**

**Unraveling the Mind: The Mystery of Consciousness** (*November 17, 2022*)

**Fathoming the Mind: A Closer Look at the Formation of Self** (*January 17, 2023*)

**Cultivating the Mind: Reason and the Pursuit of Ethical Transformation** (*February 15, 2023*)

In partnership with the Nour Foundation and “To the Best of Our Knowledge”, this timely and thought-provoking series brought together leading scientists and thinkers from an array of disciplines to help ponder and unravel the complexities of the human mind. Noteworthy speakers include: Steve Paulson, To the Best of Our Knowledge; Carl Safina, PhD, Stony Brook University; and Richard Davidson, University of Wisconsin-Madison.



**Therapeutic Promise of the Microbiome: The Dr. Paul Janssen Award Symposium** (*February 8, 2023*) Recognizing the impact of his revolutionary insights, Jeffrey Gordon, MD, was awarded the annual Dr. Paul Janssen Award for Biomedical Research. Noteworthy speakers include: The “father of the microbiome research”: Jeffrey Gordon, MD, and Robert J. Glaser, PhD, Distinguished University Professor and Director of the Center for Genome Sciences and Systems Biology at Washington University in St. Louis.

**Frontiers in Immunology** (*April 11-12, 2023*) This two-day symposium convened researchers across the spectrum of immunology to discuss basic immunological questions with the ultimate goal of identifying novel therapeutic strategies for autoimmune and inflammatory diseases, infection, and cancer. Noteworthy Speakers include Francisco Quintana, PhD, Harvard Medical School; Bali Pulendran, PhD, Stanford University; and Yasmine Belkaid, PhD, National Institute of Allergy and Infectious Diseases.

**Frontiers in Cancer Immunotherapy 2023** (*May 2-4, 2023*) A multi-sector group of attendees, speakers, and panelists discussed the latest on the topic of immuno-oncology, emerging research, and its potential for clinical application. Nobel laureate James P. Allison, PhD, University of Texas, MD Anderson Cancer Center, was the guest speaker.

**The New Wave of AI in Healthcare** (*May 23-24, 2023*) Presented in partnership with the Windreich Department of Artificial Intelligence and Human Health at the Icahn School of Medicine at Mount Sinai, this symposium explored the frontiers of machine learning and AI as they advance healthcare innovation and patient outcomes. Noteworthy speakers included: Jianying Hu, PhD, IBM Fellow Director, HCLS Research, Global Science Leader, AI for Healthcare, IBM Research; David Rhew, MD, Global Chief Medical Officer and VP, Healthcare, Microsoft.

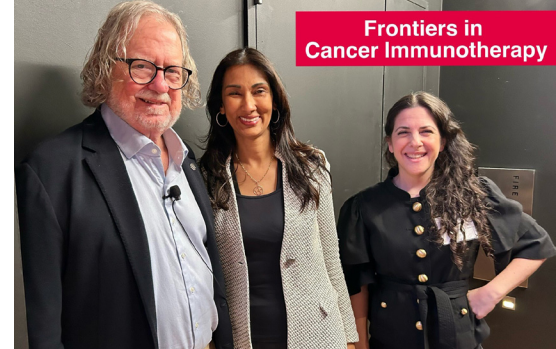




**2023 Ross Prize Symposium - Genetic Basis of Lipid Metabolism Disorders** (May 31, 2023) Drs. Hobbs and Cohen were awarded the 2023 Ross Prize in Molecular Medicine by the Feinstein Institutes for Medical Research and the journal *Molecular Medicine* for their pioneering and collaborative work in defining the genetic risk factors for dyslipidemias and metabolic liver disease that have led to the rational design of new therapies. The 2023 Ross Prize Symposium, in its 10th year in partnership with the Feinstein Institutes for Medical Research, continued the Academy's Legacy of honoring scientific excellence and sharing transformational research. Noteworthy speakers included: Helen Hobbs, MD, PhD, University of Texas Southwestern Medical Center; Jonathan Cohen, PhD, University of Texas Southwestern Medical Center; Rick Lifton, MD, PhD, The Rockefeller University.

**Chemical Biology of the Microbiome** (May 31 – June 1, 2023) The microbiome has been the topic of a growing body of research linking the interactions between microbes and the host organism to a number of novel therapeutic avenues for the treatment of diseases. This conference convened global experts at the intersection of chemical biology and microbiology to discuss the latest research into the basic metabolism and the therapeutic potential of the microbiome. Noteworthy speakers included: Martin J. Blaser, PhD, Rutgers University; Laura L. Kiessling, PhD, Massachusetts Institute of Technology; Michael Fischbach, PhD, Stanford University.

**Explorations in Consciousness: Death, Psychedelics, and Mystical Experience** (June 8, 2023) This cross-disciplinary conference bridged fields that frequently operate in separate silos such as psychedelics, near death, consciousness, and religion to examine questions such as: “what is the nature of consciousness?”, “what happens to it at the brink of death—and beyond?”. Noteworthy speakers included: *New York Times* best-selling author, Brian C. Muraresku, JD; *New York Times* best-selling author, Karen Armstrong, OBE FRSL, Rutgers University; Christof Koch, PhD, The Allen Institute; author, and film-maker, Sebastian Junger; Anthony Bossis, PhD, New York University.



# Shaping the Future of Nutrition Science

The Nutrition Science Program of The New York Academy of Sciences continues to play a significant role in shaping the global nutrition landscape.

The **Addressing Global Calcium Deficiency Initiative** is an extensive, scientifically-grounded campaign aimed at tackling the pervasive issue of calcium deficiency worldwide. This initiative is at the forefront of developing a new diagnostic tool, notably a novel calcium isotope biomarker designed to provide precise and reliable assessments of calcium status at the population level. A rigorous clinical trial is currently underway in India to evaluate the effectiveness and reliability of this innovative intervention. The initiative is also extending its specialized expertise and resources by offering targeted Technical Assistance for Calcium Programs in two critical regions: Ethiopia and Pakistan, aiming to create culturally sensitive and geographically appropriate strategies to combat this widespread health issue.

The Nutrition team has been spearheading the **Multiple Micronutrient Supplementation (MMS) in Pregnancy Technical Advisory Group**, a global effort aimed at improving maternal and neonatal health. Following the successful application to include MMS in the World Health Organization's Essential List of Medicines, the team is now conducting a research project involving 16 global trials, to determine the optimal dose of MMS required to improve pregnancy and birth outcomes.

In the **Adolescent Girls and Adult Women Nutrition** Initiative, participants from Colombia and Vietnam engaged in a competition to encourage healthier eating, submitting innovative recipes crafted from affordable, local ingredients. To amplify their impact and support the implementation of these solutions, The New York Academy of Sciences Nutrition Team provided the winners with specialized training, turning them into ambassadors of change promoting healthier lifestyles within their communities. This Initiative led to a Special Series of nine peer reviewed publications, with a significant contribution to the literature on adolescent women nutrition.





# Shaping the Future of Science through Recognition and Awards

The New York Academy of Sciences continued its reputation for supporting and recognizing young researchers through the following partnerships:



Blavatnik Awards  
Young Scientists

The Blavatnik Awards for Young Scientists – U.S.  
National and Regional Awards, United Kingdom, and Israel



Innovators in Science Award



Japan Agency for Medical Research  
and Development

The Interstellar Initiative



TRANSFORMATION PRIZE

Tata Transformation Prize

Leon Levy  
Scholarships  
in Neuroscience

At the New York Academy of Sciences

The Leon Levy Scholarships in Neuroscience

## CELEBRATING ACHIEVEMENT

# The Blavatnik Awards for Young Scientists



Blavatnik Awards  
for  
Young Scientists

The Blavatnik Awards for Young Scientists were established in 2007 by the Blavatnik Family Foundation to identify and honor exceptional young scientists and engineers in the categories of Life Sciences, Chemistry, and Physical Sciences & Engineering. The Awards celebrate extraordinary achievement, recognize outstanding promise, and accelerate innovation through unrestricted funding.

Honoring **groundbreaking young scientists around the world**, the original Blavatnik Regional Awards for Young Scientists recognized researchers in New York, New Jersey, and Connecticut. The program expanded with the Blavatnik National Awards in 2014, and then, beginning in 2017, grew to include scientists and engineers in Israel and the United Kingdom.

Over **\$15.4 million was awarded to 430 young scientists and engineers** by the close of FY2023. The Blavatnik Awards for Young Scientists has honored scientists from 53 countries, representing 36 disciplines.

**Fifty-two researchers were recognized in the 2023 fiscal year.** The program continues to champion a more diverse workforce and the Blavatnik Awards strongly encourages the nomination of women and other underrepresented groups in science and engineering.





## CELEBRATING ACHIEVEMENT

# Blavatnik U.S. Regional Awards

The 2022 Blavatnik Regional Awards received 158 nominations of talented postdoctoral scientists from 26 institutions across New York, New Jersey, and Connecticut. The three Winners and six Finalists, each awarded US \$30,000 and US \$10,000 respectively, were announced on September 21, 2022, during National Postdoc Appreciation Week and were recognized at the 2022 New York Academy of Sciences Gala.



### 2022 LAUREATE IN CHEMISTRY

Wen Zhang, PhD, nominated by Cornell University.



### 2022 LAUREATE IN LIFE SCIENCES

Josefina del Mármol, PhD, nominated by Rockefeller University, now at Harvard Medical school.



### 2022 LAUREATE IN PHYSICAL SCIENCES & ENGINEERING

Xiaolong Liu, PhD, nominated by Cornell University, now at the University of Notre Dame.



## CELEBRATING ACHIEVEMENT

# Blavatnik U.S. National Awards

The eighth annual Blavatnik National Awards for Young Scientists Ceremony was held at the American Museum of Natural History in New York City on September 19, 2022. This event honored the 2022 Blavatnik National Awards Finalists and Laureates. Professor Michael W. Young, 2017 Nobel laureate from The Rockefeller University, served as ceremony presenter.

In mid-summer 2023, the 2023 Blavatnik National Awards Finalists and Laureates were announced recognizing exceptional work ranging from energy and sustainability, to climate change and forest fires, and transforming solid-state physics and semi-conductor physics. The 2023 Blavatnik National Awards received 267 nominations from 134 institutions in 38 U.S. states.



### 2023 LAUREATE IN LIFE SCIENCES

William Anderegg, PhD, The University of Utah



### 2023 LAUREATE IN CHEMISTRY

Shannon Boettcher, PhD, University of Oregon



### 2023 LAUREATE IN PHYSICAL SCIENCES & ENGINEERING

Svitlana Mayboroda, PhD, University of Minnesota



## CELEBRATING ACHIEVEMENT

# Blavatnik Awards in the UK

The Blavatnik Awards in the United Kingdom announced nine 2023 honorees – three Laureates, each awarded £100,000, and six Finalists, each awarded £30,000 – in January 2023. It was the first time in the history of the Blavatnik Awards in the UK that all three Laureates are women scientists. Their research ranged from uncovering the mystery of dark energy, using liquids to understand the origin of cellular life, to new frontiers in immunology.

The Laureates and Finalists were honored at an award ceremony at Banqueting House London in February 2023 and their work was featured at a public symposium, “Catalysing Change” held at the RSA House.



### 2023 LAUREATE IN CHEMISTRY

Susan Perkin, DPhil, University of Oxford



### 2023 LAUREATE IN LIFE SCIENCES

Katie Doores, DPhil, King's College London



### 2023 LAUREATE IN PHYSICAL SCIENCES & ENGINEERING

Clare Burrage, PhD, University of Nottingham





## CELEBRATING ACHIEVEMENT

# Blavatnik Awards in Israel

The 2023 Blavatnik Awards in Israel, jointly administered by The New York Academy of Sciences and The Israel Academy of Sciences and Humanities, honored the most promising and impactful young scientists in Israel. Three Laureates, with research ranging from population genetics, protein aggregation in cells, to improving cloud computing security through new encryption algorithms, were each awarded US \$100,000. They were honored at an outdoor celebration in Tel Aviv at the Peres Center for Peace & innovation in June 2023, and their work was featured at a public symposium at The Steinhardt Museum of Natural History.



### 2023 LAUREATE IN CHEMISTRY

Rina Rosenzweig, PhD, Weizmann Institute of Science



### 2023 LAUREATE IN LIFE SCIENCES

Shai Carmi, PhD, The Hebrew University of Jerusalem



### 2023 LAUREATE IN PHYSICAL SCIENCES & ENGINEERING

Zvika Brakerski, PhD, Weizmann Institute of Science



## CELEBRATING ACHIEVEMENT

# Innovators in Science Award

The New York Academy of Sciences, in partnership with Takeda Pharmaceuticals, launched the fifth cycle of the Innovators in Science Award, a global recognition program to honor both a promising Early-Career Scientist and an outstanding Senior Scientist for their exceptional research and contributions to a specific field of study. In this cycle, the focus of the award is cancer immunology.



The 2024 Innovators in Science Award winners will be selected in August, 2023, and announced publicly in December, 2023, and celebrated at a ceremony in Boston, MA in April, 2024. Each winner will receive an unrestricted prize of US \$200,000 to support their continued commitment to innovative research.

This year, we received 119 nominations in cancer immunology from 22 countries around the world. Nominees represented seven subcategories of research including immune mechanisms in the tumor microenvironment, next-generation cell-based therapeutics, and emerging immunomodulatory therapeutics.



## CELEBRATING ACHIEVEMENT

# Leon Levy Scholarship in Neuroscience

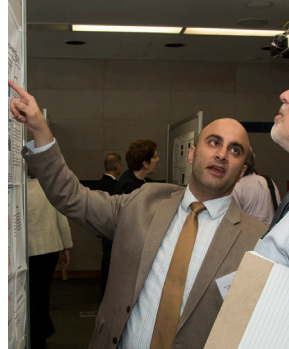
Leon Levy  
Scholarships  
in Neuroscience



*At the New York Academy of Sciences*

In October 2022, the Leon Levy Foundation partnered with The New York Academy of Sciences to administer the Leon Levy Scholarships in Neuroscience. This highly regarded postdoctoral program supports exceptional young researchers throughout New York City as they pursue innovative investigations in neuroscience and advance in their careers toward becoming independent principal investigators.

This year, the Academy received a total of 90 applications from more than a dozen institutions across New York City. In April 2023, ten scholars were selected for this three-year scholarship, with research specialties spanning systems neuroscience, cellular and molecular neuroscience, evolutionary neuroscience, and cognitive and behavioral neuroscience.





## CELEBRATING ACHIEVEMENT

# The Interstellar Initiative



Japan Agency for Medical Research  
and Development

The Interstellar Initiative, developed by the Japan Agency for Medical Research and Development (AMED) and The New York Academy of Sciences, fosters international and interdisciplinary collaboration between scientists early in their careers. The program brings together researchers from around the world, selected via a competitive application process, and teams them with peers in complementary disciplines. With the guidance of leading senior researchers, each team develops a grant proposal.

The **2022-2023 Interstellar Initiative** focused on Basic Research to elucidate the complex mechanisms of living organisms, with projects studying nanoparticles, the microbiome, epigenetics, dental health, cell biology, neurodegenerative and cognitive disorders, cardiovascular disease, metabolic and hormonal disorders, viral and parasitic infections, and the functioning of the immune system. The **Interstellar Initiative Beyond Program** provides further funding and support to the most promising team research projects developed through the Interstellar Initiative. Twenty-seven returning early-career investigators making up nine teams and nine mentors met virtually during two workshops from 10 countries.

The **Interstellar Initiative Alumni Symposium** highlighted the achievements of past Interstellar Initiative projects and allowed participants from each year of the Interstellar Initiative to network and form new collaborations. As a result of this program, novel interdisciplinary scientific research projects were developed across international boundaries, increasing global collaboration and furthering scientific discoveries.



## CELEBRATING ACHIEVEMENT

# Tata Transformation Prize



In January, 2023, the The New York Academy of Sciences, in partnership with Tata Sons, launched the Tata Transformation Prize to support breakthrough, innovative technologies that address India's greatest challenges. By recognizing and supporting the implementation at scale of high-risk, high-reward research, the Prize will drive impactful innovation in scientific disciplines of importance to India's societal needs and economic competitiveness.

The Prize leverages the exceptional potential of scientists in India to address critical national challenges in three categories—**Food Security**, **Sustainability**, and **Healthcare**—and generate improved life quality outcomes across India and beyond.

The Tata Transformation Prize recognizes one Winner in each of the three categories, with INR 2 crores (approximately US \$240,000) for each Winner.



## SCIENTIFIC PUBLICATION WITH GLOBAL IMPACT

# Annals of The New York Academy of Sciences

*For 2023, Annals of the New York Academy of Sciences continued to focus on increasing publication of Open Access papers, as well as extending collaborations with diverse scientists.*

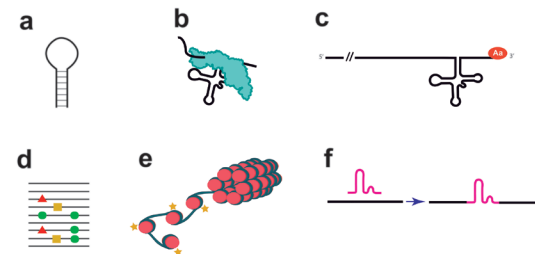
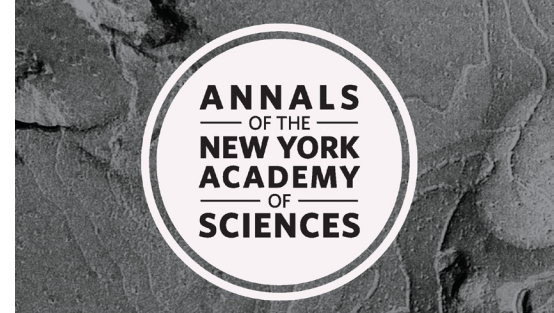
Of note, publication of virtual issues was codified in 2023. Virtual issues are collections of thematically-related papers published online only. They derive from specific projects developed in collaboration with external scientists and organizations that have organized, and wish to disseminate, a series of studies in a specific area of science. The expanding collection of virtual issues can be found on the Wiley Online Library (<https://nyaspubs.onlinelibrary.wiley.com/topic/vi-categories-17496632/virtual-issues/17496632>).

Among the virtual issues in 2023:

- Biology of Social Behavior
- STEMM Excellence
- WHO Action Plan on Anemia
- Adolescent Women Nutrition in Colombia and Vietnam

The following are individual papers for each virtual issue above:

- Neuromodulators and neuroepigenetics of social behavior in ants
- Developing eminence in STEMM: An interview study with talent development and STEMM experts
- Accelerating action to reduce anemia: Review of causes and risk factors and related data needs
- The Global Diet Quality Score is associated with nutrient adequacy and depression among Vietnamese youths



**5.185**  
IMPACT  
FACTOR

**6.290**  
5-YEAR  
IMPACT  
FACTOR

2022 Journal Citation Reports (Clarivate Analytics)

**#17**  
OUT OF 73

in the Multidisciplinary  
Sciences category

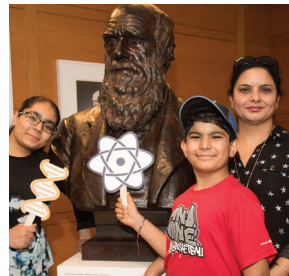


## SHAPING THE FUTURE OF SCIENCE

# Through Investment In STEM Education

Launched at the United Nations in 2014, The New York Academy of Sciences education programs have focused on providing the highest quality STEM education for students traditionally marginalized in the STEM pipeline. Through our initiatives, we equip students with essential skills and foster a growth mindset that empowers them to become well-informed citizens in an ever-evolving world. Highlights of our ongoing authentic learning experiences include:

- Increased number of hours participating in active STEM learning experiences that allow students to build important workplace skills such as leadership and the ability to work in teams, and solve problems creatively.
- Increased self-efficacy and identity, and self-confidence: the ability to engage in scientific pursuits and belong in STEM – presenting science as a human endeavor with programs that focus on inclusiveness and accessibility.
- Increased opportunities to participate in authentic STEM experiences that demonstrate the value of STEM skills to their own lives.
- Engaging scientists as mentors and instructors so that students work directly with STEM professionals who share a similar cultural or socio-economic background with them, which in turn increases their own confidence in teaching, mentoring and communication skills.
- Academy member scientists support more than 400,000 hours of mentorship and teaching annually and have donated over 3.5 million hours of their time to mentorship and teaching since 2010.
- More than 16,000 K-12 and higher education students in New York City and abroad annually enroll in our programs.
- Students in more than 100 countries participate in The New York Academy of Sciences Education's Virtual Innovation Challenges.
- Scientists placed in NYC public schools have reached more than 160,000 students and increased their participation in innovative STEM activities. Additionally, via The New York Academy of Sciences participation, early career scientists gain essential teaching and mentoring skills.



# The New York Academy of Sciences thanks its many generous partners and supporters.

## MISSION PARTNER (\$1 MILLION+)

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# The New York Academy of Sciences thanks its many generous partners and supporters.

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American Chemical Society New York Section	The Kurt Forrest Foundation	Office of Naval Research
American Psychological Association	Foundation for the National Institutes of Health	Thomas Pompidou and Marean Pompidou
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Arkuda Therapeutics	Genmab	Lowell Robinson and Leila Heckman
Art Guild, Inc.	The Gerstner Sloan Kettering Graduate School	The Rockefeller University
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Peter Baldwin	Julie Greenberg	The Royalty Pharma Charitable Fund
Benefit Plan Manager	John P. Hall III and R. May Lee	Sage Foundation
BIAL-BioTech Investments	Diane Hallman	San Mateo County Office of Education
Bloomberg L.P.	Hemanext	Seres Therapeutics
Bristol-Myers Squibb Company	Charles Hesdorffer	Konstantin Shakhnovich
Fred J. Brotherton Charitable Foundation	Hevolution	Robin Stephenson
Robert B. Catell	Paul Horn	Stony Brook Foundation
Cerecin Inc.	Jerry and Jill Hultin	Stony Brook University
Charina Foundation, Inc.	Human Immunome Project	Masaki Tan
Peter S. Coleman	Mel Kantor	Dipak Kalyanji Tanna
Barry S. Collier	Ralph Kaslick	Tito's Handmade Vodka
Columbia University Irving Medical Center	Seema Kumar	The University Club
Jacqueline Corbelli	Jacqueline Leo	University of Delaware
Cue Biopharma	Lytix Biopharma	University of Michigan
Cullgen Inc.	Lester Marks	Marica and Jan Vilcek/Vilcek Foundation
Deerfield at CURE	The Mayor's Fund to Advance New York City	George Yancopoulos
Claudia Deheza	Memorial Sloan-Kettering Cancer Center	
Nicholas Dirks	Merck & Co., Inc.	
	Mount Sinai Health System	



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**Catherine Sarquiz**, The New York Academy of Sciences

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**Jacqueline Corbelli**, Chairman, Chief Executive Officer, and Co-Founder, BrightLine

**Ellen de Brabander**, Executive Vice President of Innovation and Regulatory Affairs, Elanco

**Kirsten Davies**, Chief Information Security Officer, Unilever

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**Aida Habtezion**, Chief Medical Officer and Head of Worldwide Medical & Safety, Pfizer Inc.

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**Ravi Kumar S.**, Chief Executive Officer, Cognizant

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**Pablo Legorreta**, Chief Executive Officer and Founder, Royalty Pharma

**Amber Miller**, Dean of the University of Southern California Dornsife College of Letters, Arts and Sciences

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**Martin Nesbitt**, Co-Chief Executive Officer, The Vistria Group, LLC

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**Faye Wattleton**, Co-Founder and Director, EeroQ Quantum Hardware

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**Jeremy Wertheimer**, Chief Executive Officer, Biological Engineering Ventures

**George D. Yancopoulos**, Co-Founder, President and Chief Scientific Officer, Regeneron

**Michael Young**, Nobel Laureate; Richard and Jeanne Fisher Professor and Vice President for Academic Affairs, The Rockefeller University

**Nadav Zafir**, Chief Executive Officer and Co-Founder, TEAM8, Inc.

# Board of Governors

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**Ellis Rubinstein**

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**John F. Niblack**, former Vice Chair of the Board and President of Global Research and Development, Pfizer, Inc.

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**Toni Hoover**, Director, Strategy Planning and Management, The Bill and Melinda Gates Foundation

**Johan Rockström**, Director, Potsdam Institute for Climate Impact Research and Professor, Earth System Science, University of Potsdam

**Paul Stoffels**, Chief Executive Officer and Chairman, Galapagos NV; Former Chief Scientific Officer, Johnson & Johnson

# The New York Academy of Sciences Fiscal Year '23 Financial Report

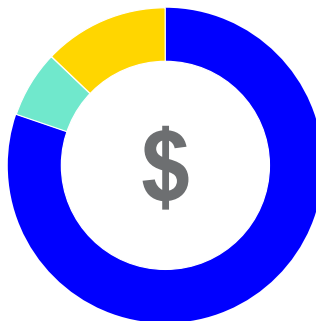
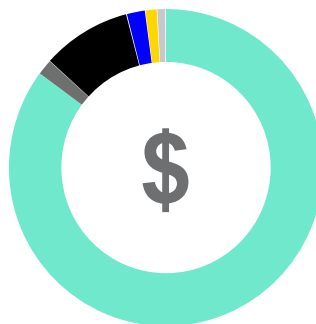
## CONSOLIDATED STATEMENT OF ACTIVITIES

### OPERATING SUPPORT AND REVENUE

Contributions	\$ 19,011,934
Special Events, Net	\$ 356,855
Publication Sales	\$ 2,058,728
Membership Fees	\$ 425,355
Registration Fees	\$ 271,626
In-Kind Donations - Rent	\$ 197,025
Other Income	\$ 9,869
<b>Total Operating Support And Revenue</b>	<b>\$ 22,331,392</b>

### OPERATING EXPENSES

Program Expenses	\$ 18,465,265
Fundraising	\$ 1,588,182
General and Administrative	\$ 2,959,942
<b>Total Operating Expenses</b>	<b>\$ 23,013,389</b>



## CHANGE IN NET ASSETS BEFORE DEPRECIATION AND AMORTIZATION

(\$ 681,997)

Less: Depreciation And Amortization	\$ 61,598
Change In Net Assets After Depreciation And Before	(\$ 743,595)
Change In Lease Liability From Lease Modification, Gain On Loan Forgiveness And Unrealized (Losses) On Investments	
Change In Lease Liability From Lease Modification	\$ 261,846
Gain On Paycheck Protection Program Loan Forgiveness	\$ 1,787,767
Realized And Unrealized (Losses) On Investments	(\$ 42,885)
<b>Change In Net Assets</b>	<b>\$ 1,263,133</b>

\* The above data has been condensed from the consolidated financial statements as of June 30, 2023, audited by EisnerAmper, LLP. Copies of the audited statements including the accountant's unmodified opinion are available from the Academy upon request.





## About The New York Academy Of Sciences






The New York of Academy of Sciences is an independent, not-for-profit organization that since 1817 has been committed to advancing science for the benefit of society. With more than 16,000 Members in 100 countries, the Academy advances scientific and technical knowledge, addresses global challenges with science-based solutions, and sponsors a wide variety of educational initiatives at all levels for STEM and STEM-related fields. The Academy hosts programs and publishes content in the life and physical sciences, the social sciences, nutrition, artificial intelligence, computer science, and sustainability. The Academy also provides professional and educational resources for researchers across all phases of their careers. Please visit us online at [www.nyas.org](http://www.nyas.org).

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### THE NEW YORK ACADEMY OF SCIENCES

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New York, NY 10006



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