

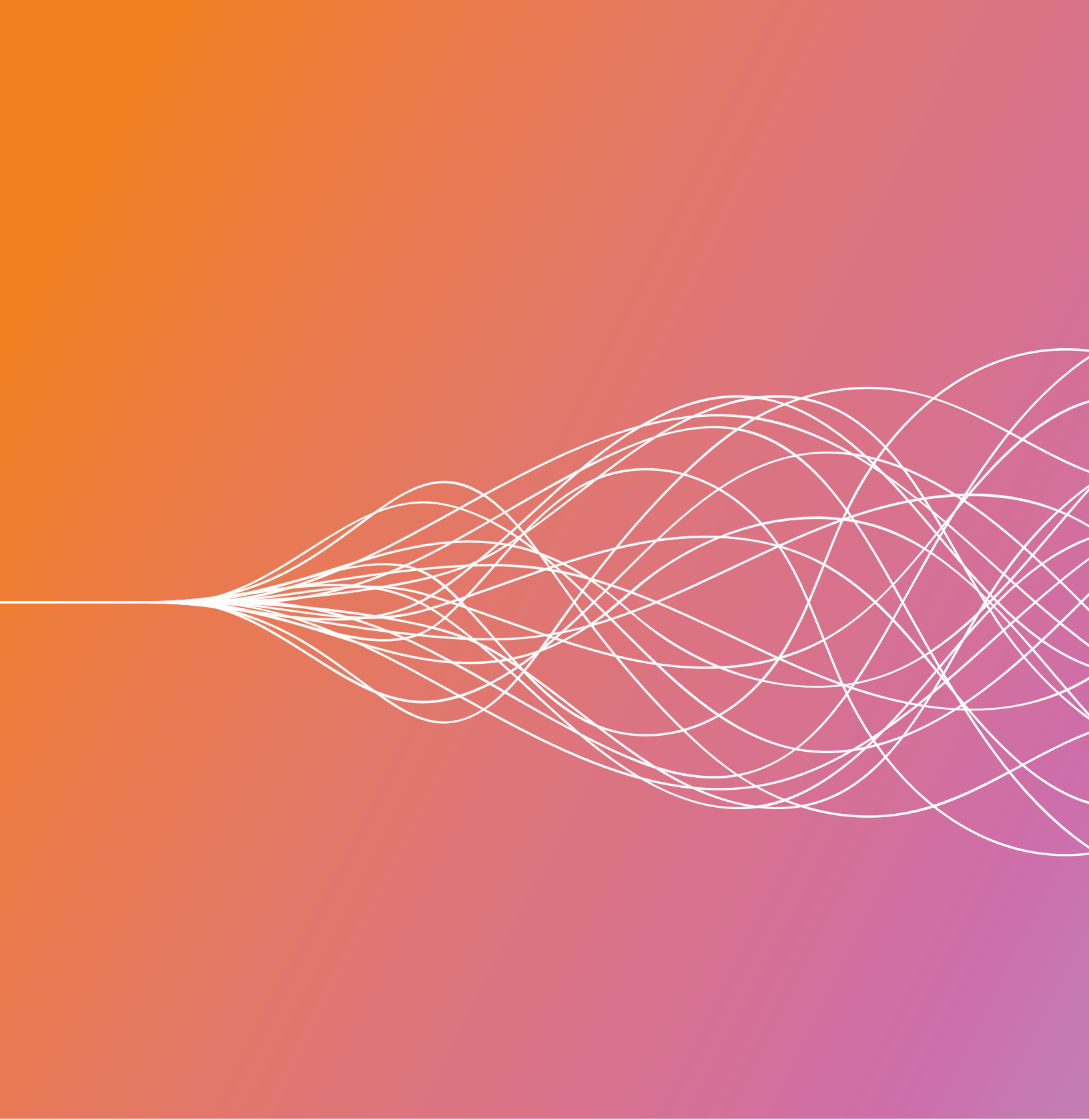


Dreams to Discoveries

ILLUMINATING THE PATH TO TRANSFORMING HUMAN HEALTH

BURROUGHS
WELLCOME
FUND 

2023 ANNUAL REPORT



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Dreams to Discoveries

ILLUMINATING THE PATH TO
TRANSFORMING HUMAN HEALTH

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About the Burroughs Wellcome Fund

More than 60 years of Investing in Scientists and Biomedical Science

Founded in 1955, the Burroughs Wellcome Fund (BWF) is an independent private foundation dedicated to advancing the biomedical sciences by supporting research and scientific and educational activities. BWF believes a diverse scientific workforce is essential to the process and advancement of research innovation, academic discovery, and public service.

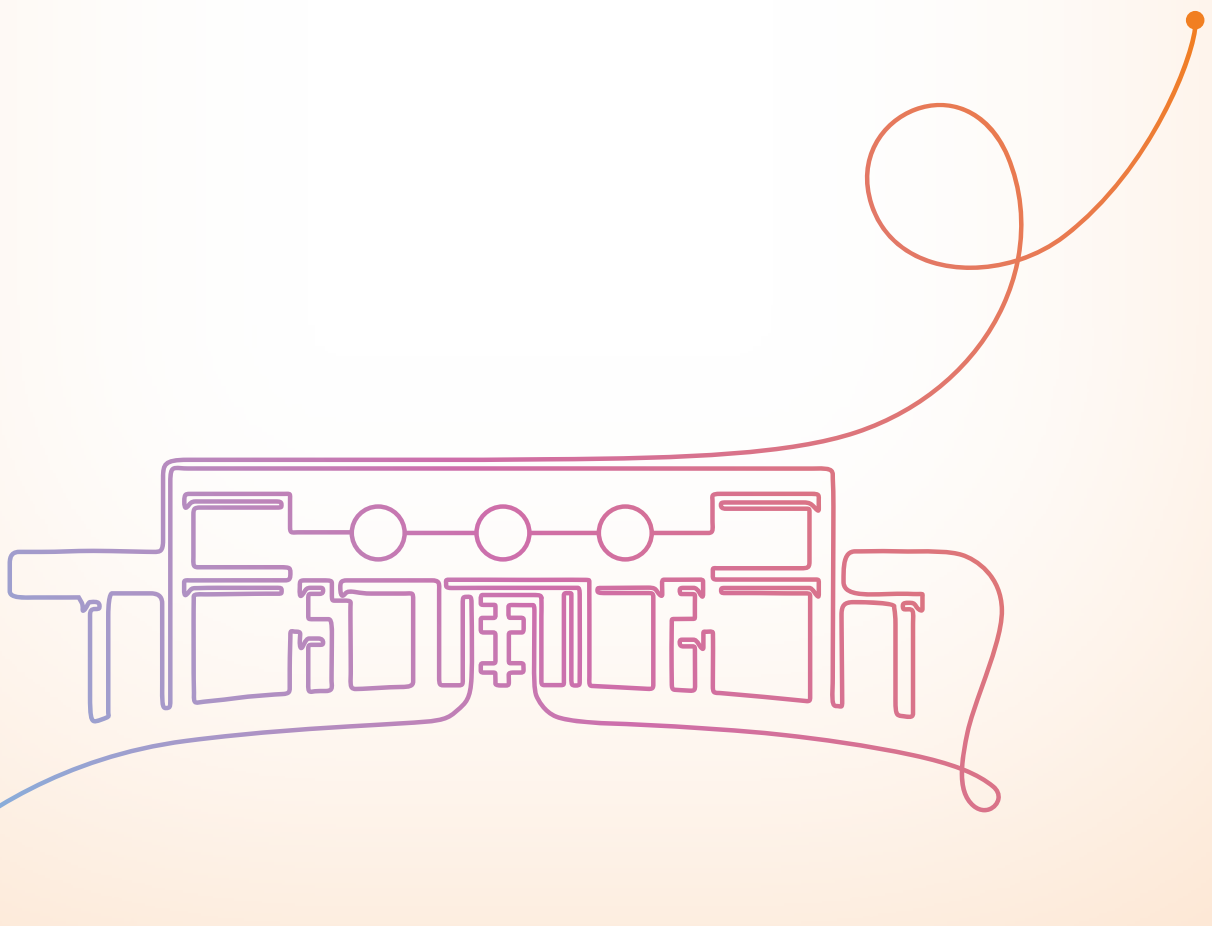
Within this mission, BWF pursues two primary goals—to help scientists early in their careers develop as independent investigators, and to advance fields in the biomedical sciences that are undervalued or in need of additional support.

To achieve these goals, BWF focuses on individual researchers in the United States and Canada, providing financial support through our competitive peer-reviewed award programs. We also make grants to nonprofit

organizations whose missions improve the overall environment for scientific activities and careers.

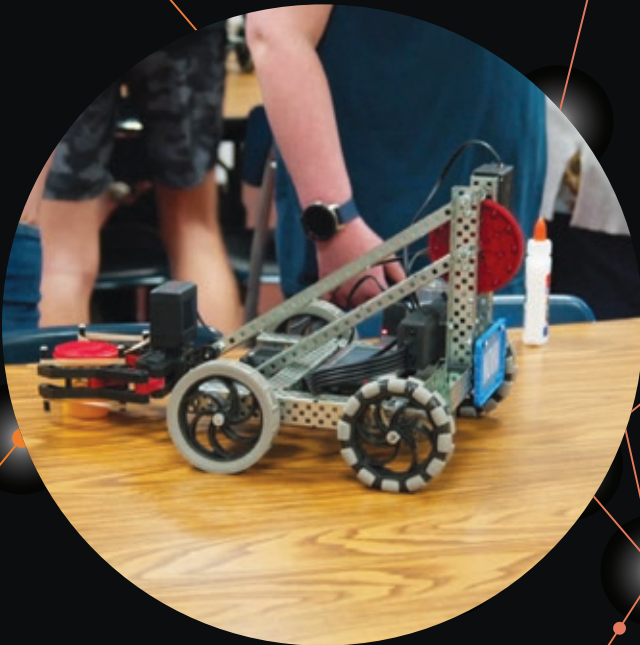
Above all, BWF establishes relationships and invests in the person. We prioritize the researcher's individual development—designing awards that enhance opportunities for training, collaboration, and idea-sharing. We also facilitate networks, gatherings, and conversations to connect awardees with a diverse community of expertise, mentorship, and inspiration.

Our investment in the person ensures each award has life beyond any single grant, empowering our researchers to continue to find creative, original, and unique solutions to biomedical problems throughout their careers—and in turn, confer good health and strength for all humankind.



2023 Highlights

Burroughs Wellcome Fund
NC Teachers of the Year (L to R):
Maureen Stover (2020),
Eugenia Floyd (2021),
Leah Carper (2022)



STEM robot from STEM Awardee
Meeting Exhibit



Dr. Lou Muglia visits the Biology
of Parasitism Class of 2023 at
Marine Biological Laboratory in
Woods Hole, MA

Captain Barrington Irving,
Founder and CEO Flying
Classroom and Alfred Mays



The Burroughs Wellcome Fund
traveling backpack by Beverly
Owens 2019 Career Award for
STEM Teachers Recipient



Andrea Gladden, East Burke Middle
School | Burke County Public Schools
2023 Career Award for STEM Teachers
(CAST) Recipient



Overview of Burroughs Wellcome Fund with Dr. Lou Muglia



North Carolina Society for Hispanic Professionals
TuPortal STEM



The STEM journey interview with 2019
Career Award for STEM Teachers Recipient,
Beverly Owens, Mandeep Sekhon and Ben
Allison, Benco Productions



“As we move into 2024, our resolve remains stronger than ever. The global challenges of our time are significant, but so is our determination to continue to make a meaningful impact. We will continue to push the boundaries of science and strive for a healthier and more equitable world.”

President's Message



Dear BWF Community,

I hope this letter finds you well. It is my privilege, as the President of the Burroughs Wellcome Fund, to share with you our annual report for the year 2023. This report provides an overview on the mechanisms in place to help advance the frontiers of scientific research and our commitment to improving human health.

The year 2023 was one of continued growth and achievement. Despite the ongoing challenges posed by the global conflicts, continuation of the pandemic,

and a steady flow of orchestrated misinformation, the Fund remained steadfast in its mission to foster innovation, support visionary researchers, embrace diversity and inspire the next generation of researchers.

Grants and Fellowships

We awarded grants and fellowships to many promising researchers, totaling more than \$36 million. Our bridging grants support early career scientists, enabling them to explore bold ideas, pursue professional development opportunities, and push the boundaries of knowledge. These investments have the potential to transform the landscape of scientific research in the coming years and has been the foundational grantmaking strategy for the Fund.

Our various programs and scientific initiatives, including Next Gen Pregnancy Initiative and Innovations in Regulatory Science, continue to drive breakthroughs in critical underfunded research areas. The Fund plays a pivotal role

in advancing scientific knowledge and addressing some of the most pressing global health challenges.

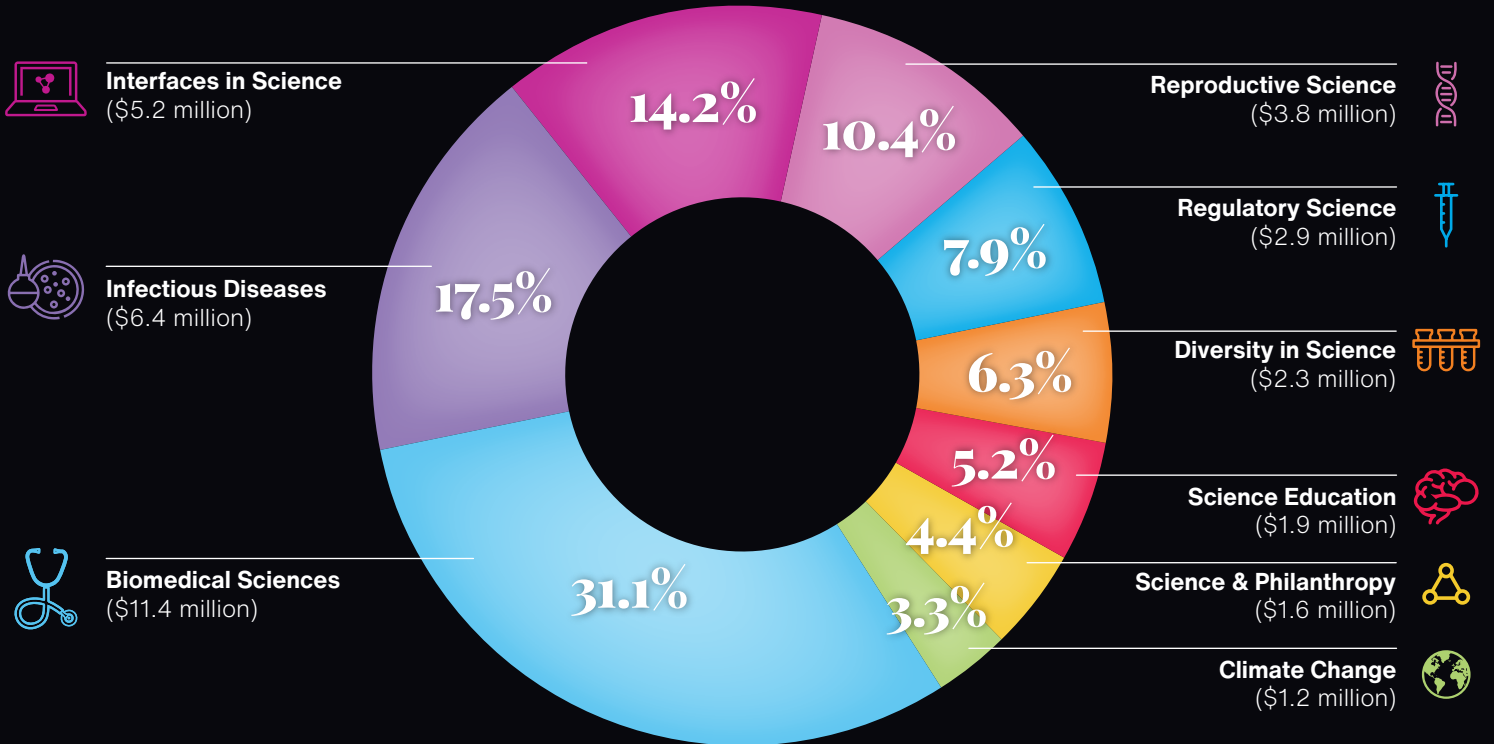
Diversity and Inclusion

We continue our commitment to promoting diversity and inclusion in the scientific community by expansion of our Diversity in Science awards. Through other initiatives, we provided opportunities to underrepresented and historically marginalized groups, fostering an environment where different perspectives and experiences are valued. We are proud of the strides we have made, and we recognize the importance of continued work in science and education to help everyone find a place for themselves in STEM careers.

Climate Change and Human Health

The Burroughs Wellcome Fund has demonstrated a commitment to address the multifaceted intersection of climate change and human health through strategic grant investment. We recognize the profound impact of environmental changes on public well-being and the Fund provided seed grants to initiatives that aim to investigate, mitigate, and adapt to the health implications of a changing climate through a wide range of mechanisms. By fostering innovation in this critical area, the Fund contributed to the development of solutions that not only enhance our understanding of the relationship between climate change and human health but also pave the way for interventions that safeguard communities and promote sustainable well-being. Through its grant programs, the Burroughs Wellcome Fund plays a pivotal role in advancing knowledge, fostering collaboration, inspiring young minds, and ultimately fostering a healthier and more resilient future in the face of global environmental challenges.

BWF awarded \$36.7 million in grants during fiscal year 2023



- Biomedical Sciences**
Career Awards in the Medical Sciences
Resident Faculty Scholar
- Climate Change and Human Health**
Climate and Health Interdisciplinary Awards
Climate Change and Human Health Seed Grants
- Diversity in Science**
Graduate Diversity Enrichment Program
Postdoctoral Diversity Enrichment Program
- Infectious Diseases**
Investigators in Pathogenesis of Infectious Disease
- Interfaces in Science**
Career Award at the Scientific Interface
- Regulatory Science**
Innovation in Regulatory Science Awards
- Reproductive Science**
Next Gen Pregnancy Initiative
- Science and Philanthropy**
Science Communication
Science and the Arts
General Philanthropy
- Science and Education**
Career Award for STEM Teachers
Promoting Innovation in Science and Mathematics
Student STEM Enrichment Program

For audited financial statements and complete grant listings, visit www.bwffund.org/about/annual-report

Science Communication

The Burroughs Wellcome Fund is a trailblazer in investing and advancing science communication. Understanding the importance of bridging the gap between scientific advancements and public understanding, the Fund has consistently championed initiatives that promote effective science communication. By providing funding and resources to scientists, researchers, and communicators, the Fund provides a mechanism for them to communicate complex scientific concepts in accessible and engaging ways and enhance public awareness of scientific breakthroughs while cultivating a culture of transparency and collaboration. An exciting recent priority has been further fostering active, productive interactions by scientists, artists and humanities

scholars to inspire wonder and awe in the natural world through their collaboration.

As we move into 2024, our resolve remains stronger than ever. The global challenges of our times are significant, but so is our determination to continue to make a meaningful impact. We will continue to push the boundaries of science and strive for a healthier and more equitable world.

Sincerely,

Louis J. Muglia, MD, PhD
President and CEO
Burroughs Wellcome Fund

Competitive Grant Programs

**CAREER AWARDS AT THE
SCIENTIFIC INTERFACE**



**CAREER AWARDS FOR
MEDICAL SCIENTISTS**



**CLIMATE AND HEALTH
INTERDISCIPLINARY AWARDS**



**RESIDENT
FACULTY SCHOLAR**



**CLIMATE CHANGE
AND HUMAN HEALTH**



**CAREER GUIDANCE
FOR TRAINEES**



**INVESTIGATORS IN
THE PATHOGENESIS OF
INFECTIOUS DISEASE**



**INNOVATION
IN REGULATORY
SCIENCE AWARDS**



**GRADUATE DIVERSITY
ENRICHMENT PROGRAM**





NEXT GEN
PREGNANCY INITIATIVE



CAREER AWARD FOR
STEM TEACHERS




POSTDOCTORAL DIVERSITY
ENRICHMENT PROGRAM



STUDENT STEM
ENRICHMENT PROGRAM



PRISM AWARDS
PROMOTING INNOVATION IN
SCIENCE AND MATHEMATICS



Ad Hoc Grants

Some of the greatest discoveries happened because innovators recognized fast-moving opportunities and acted on them. BWF provides ad hoc grants on a one-time basis for specific projects or purposes. These grants are typically not part of a long-term funding plan or renewable unless explicitly stated otherwise. BWF awards these grants for a variety of reasons, including emergency situations, unexpected opportunities, or projects outside of the Fund's regular funding priorities.

Despite being one-time awards, ad hoc grants are an important source of support for organizations and individuals seeking funding for fast-moving projects or purposes. The ad hoc grants are a flexible and responsive funding option to promote innovation, creativity, and problem-solving in wide-ranging fields.

Career Awards at the Scientific Interface

The intersection of different scientific fields offers exciting potential for discovery. In recognition of the vital role of cross-trained scientists, the Career Awards at the Scientific Interface (CASI) support individuals who have completed a PhD in physical, mathematical, or computational science or engineering, and have transitioned to the biological sciences for postdoctoral work. Proposals must be interdisciplinary and make use of non-biological approaches to investigating biological problems.

This \$500,000 award supports U.S. and Canadian scientists holding PhDs in mathematics, physics, chemistry, computer science, statistics, and engineering to pursue interdisciplinary projects using non-biological

approaches to investigate biological problems. Candidates with PhD degrees in biology, biochemistry or other biological sciences may apply if they demonstrate significant accomplishment in a non-biological field.

Examples of strong CASI proposals include computer simulation or mathematical modeling of physiological processes or biological behavior, development of imaging, screening or diagnostic tools, and application of nanotechnology in treatment of disease. Special consideration will be given to proposals using deep or machine learning applications of artificial intelligence as well as those studying the impact of climate change on human health.

2023 Awardees

Ismail Ahmed, PhD
New York University

Linlin Fan, PhD
Stanford University

Avi Flamholz, PhD
California Institute of Technology

Luis Hernandez-Nunez, PhD
Harvard University

Richard Felix Horns, PhD
California Institute of Technology

Carmel Howe, PhD
Oregon Health & Science University

Rebecca Pinals, PhD
Massachusetts Institute of Technology

Manuel Schottdorf, PhD
Princeton University

Jessica Stark, PhD
Stanford University

Advisory Committee

Anne Churchland, PhD (Co-Chair)
University of California-Los Angeles

Todd Coleman, PhD
Stanford University

Loren Frank, PhD
University of California-San Francisco

Daniel Hammer, PhD
University of Pennsylvania

P. Imoukhuede, PhD
University of Washington

Christina Leslie, PhD
Memorial Sloan Kettering Cancer Center

Melissa Lambeth Kemp, PhD
Georgia Institute of Technology
Emory University

Stephanie Palmer, DPhil
The University of Chicago

Liam Paninski, PhD
Columbia University

Lulu Qian, PhD
California Institute of Technology

Georg Seelig, PhD
University of Washington

Kandice Tanner, PhD
National Cancer Institute

Matt Thomson, PhD
California Institute of Technology

Shyni Varghese, PhD (Co-Chair)
Duke University

Corey J. Wilson, PhD
Georgia Institute of Technology

Jesse Zalatan, PhD
University of Washington

Career Awards for Medical Scientists

Physician scientists bring a union of clinical and academic perspective to biomedical research and the transition from postdoctoral trainee or fellow can be complex. To support physician scientists (MD, DO, DVM, DDS) committed to research careers, BWF created The Career Awards for Medical Scientists (CAMS).

CAMS provides \$700,000 over five years to mid-career U.S. or Canadian physician scientists to develop their careers in biomedical research. Proposals must be in the areas of basic science, translational science, or biomedical science. BWF encourages applications in artificial intelligence and machine learning. Two awards will be granted to investigators whose research is at the interface between psychiatry and neuroscience.

2023 Awardees

Maria Basil, MD, PhD
University of Pennsylvania

Glynnis Garry, MD
University of Texas Southwestern
Medical Center-Dallas

Sattar Khoshkhoo, MD
Harvard Medical School

Paulo Lizano, MD, PhD
Beth Israel Deaconess Medical Center

Anish Mitra, MD, PhD
Stanford University

Jacqueline Parchem, MD
University of Texas-Houston Health
Science Center

Sheila Shanmugan, MD, PhD
University of Pennsylvania

Diana Shi, MD
Harvard Medical School

Joelle Straehla, MD
Massachusetts Institute of Technology

Brian Sweis, MD, PhD
Icahn School of Medicine at Mount Sinai

Samuel Weinberg, MD, PhD
Northwestern University

Samir Zaidi, MD, PhD
Memorial Sloan-Kettering Cancer Center

Advisory Committee

Derek Abbott, MD, PhD (Co-Chair)
Case Western Reserve University

Geoffrey Aguirre, MD, PhD
Hospital of the University of Pennsylvania

Leslie J. Berg, PhD
University of Colorado School of Medicine

Chester W. Brown, MD, PhD
University of Tennessee Health Science
Center

Paul Buckmaster, DVM, PhD
Stanford University

Kathleen H. Burns, MD, PhD
Harvard Medical School

Kathleen Caron, Ph.D. (Co-Chair)
University of North Carolina-Chapel Hill

Jeanine D'Armiento, MD, PhD
Columbia University

Seth Field, MD, PhD
Case Western Reserve University

Sarah H. Lisanby, MD
National Institute of Mental Health

Heather C. Mefford, MD, PhD
St. Jude Children's Research Hospital

W. Kimryn Rathmell, MD, PhD
Vanderbilt University Medical Center

Upinder Singh, MD
Stanford University School of Medicine

Barry Sleckman, MD, PhD
University of Alabama-Birmingham

Career Award for STEM Teachers

Future research excellence begins with high school STEM teachers. To enhance the professional development of outstanding public school STEM teachers in North Carolina, BWF created the Career Award for STEM Teachers (CAST). CAST provides \$175,000 over five years to up to licensed North Carolina K-12 STEM public school teachers who demonstrate superior STEM knowledge, excellence in teaching, and innovative leadership. Each awardee receives an annual \$10,000 stipend to supplement their annual salary, \$10,000 for

classroom equipment or supply purchases, and \$10,000 for professional development including travel and conference fees. An additional \$5,000 will be given to the teacher if they remain employed in an NC K-12 public school at the end of the five years.

Special consideration will be given to teachers working in hard-to-staff, economically deprived classrooms in NC, as well as efforts that integrate environmental science and the impact of climate change into the STEM curriculum.

2023 Awardees

Benjamin Davis
Robbinsville High School
Graham County Schools

Leslie Rhinehart
Polk County Middle School
Polk County Schools

Tom Savage
Henderson County Early College
Henderson County Public Schools

Andrea Gladden
East Burke Middle School
Burke County Public Schools

Advisory Committee

David Marsland
Discovery Education

Angela Quick, EdD
RTI International

Honorable Bobbie Richardson, EdS
North Carolina General Assembly

Climate and Health Interdisciplinary Award

Temperature, ecological, and population changes caused by shifts in climate have a detrimental impact on human health that cannot be assessed through a single science. The Climate and Health Interdisciplinary Award (CHI) supports new research collaborations investigating the effects of climate change on human health. By creating novel interdisciplinary collaborations between experts from fields that do not typically interact, CHI aims to unlock new breakthroughs in climate science.

CHI provides \$375,000 over 3 years to U.S. and Canadian individual investigators or multi-investigator teams, which may include members outside the U.S. and Canada. Proposals must include a collaboration between biomedical sciences and disciplines outside of biomedical sciences (e.g., field ecology, agricultural sciences, geological and planetary sciences, architecture, or applied social sciences) to assess or mitigate the effects of climate change on human health.

2023 Awardees

Jessica Fanzo, PhD
Johns Hopkins University

Michael Robert, PhD
Virginia Polytechnic Institute and State University

Climate Change and Human Health Seed Grants

From small seeds, powerful collaborations can grow. To nurture new collaborations between separate fields of research and study the impact of climate change on human health, BWF offers the Climate Change and Human Health Seed Grants (CCHH). These early-stage grants connect researchers in the science/biomedical field with those in ecological, environmental, earth science or in population-based fields (epidemiology, public health, economics, and urban planning).

CCHH awards grant \$2,500-\$50,000 over one year to U.S. and Canadian researchers interested in collaborating across non-profit organizations. We are especially interested in proposals around the development of sustainable health care systems, public education on climate change, and preparation for extreme weather or other crises that would directly affect health or the delivery of health care.

2023 Awardees

Mara Freilich, PhD
Brown University

Nicolas Gauthier, PhD
University of Florida

Robert Gilman, MD
University of Florida

Trevor Harris, PhD
Texas A&M University

Shahnaz Masani, PhD
Michigan State University

Sarah States, PhD
Phipps Conservatory and Botanical Gardens, Inc

Peter Thorne, PhD
The University of Iowa

Graduate Diversity Enrichment Program

Diversity in the scientific workforce leads to greater innovation and discovery. To support the career development of young scientists who belong to underrepresented minorities. The Graduate Diversity Enrichment Program (GDEP). GDEP empowers diverse graduate students by increasing exposure to professional environments and by making candidates more competitive in academic research careers.

GDEP provides \$5,000 over two years to STEM PhD students at an NC institution of higher education who belong to an underrepresented minority (American Indian or Alaska Native, Black or African American, Hispanic, or Native Hawaiian or other Pacific Islander). Funds support travel and participation in conferences, workshops, courses, training, and networking as well as research equipment and supplies.

2023 Awardees

Amy Aponte

University of North Carolina at Chapel Hill

Ana Berglind

University of North Carolina at Chapel Hill

Kayla Fernando

Duke University School of Medicine

Giovanna Elizabeth Hernandez

Wake Forest School of Medicine

Benjamin Franklin Kornegay III

University of North Carolina at Chapel Hill

Davoneshia Lollis

Duke University

Choiselle Marius

Duke University School of Medicine

Dasean Nardone

Duke University School of Medicine

Jessica Portillo

Duke University Medical Center

Pedro Luis Rodriguez-Echemendia

University of North Carolina at Chapel Hill

Charles Okechukwu

Wake Forest University Health Sciences

Danielle Williams

University of North Carolina at Chapel Hill

Innovation in Regulatory Science Award

As biomedical science and technology advances, it is critical that accompanying laws and regulations advance in kind. The goal of the Innovation in Regulatory Science Award (IRSA) is to promote a solid scientific foundation for the development of laws and regulations around biomedical science. Drawing on fields like applied physics, medicine, toxicology, and food safety and nutrition, IRSA funds research that explores new approaches in regulatory science that can inform FDA regulatory decisions.

IRSA provides up to \$500,000 over five years to an investigator with an MD, PhD, DVM, DDS, DO, DPhil, PharmD, or MD-PhD who is employed at a non-profit, degree-granting institution in the U.S. or Canada.

BWF encourages applications that support the FDA's priorities: regenerative medicine (including gene therapy), artificial intelligence and machine learning, digital health, reduction of animal testing, and model-informed product development.

2023 Awardees

Russ Altman, MD, PhD
Stanford University

Kim Blenman, PhD
Yale University

C. Daniel Mullins, PhD
University of Maryland-Baltimore

Veronica Rotemberg, MD, PhD
Memorial Sloan Kettering Cancer Center

Ayako Suzuki, MD, PhD
Duke University School of Medicine

Advisory Committee

Martha Brumfield, PhD
University of Arizona

Lisa LaVange, PhD
University of North Carolina-Chapel Hill

Andrea Leonard-Segal, MD
George Washington University School of Medicine

Wendy R. Sanhai, PhD, MBA
Deloitte Consulting, LLP
Duke University
University of Maryland

Christy L. Shaffer, PhD
Hatteras Venture Partners
Hatteras Discovery

Alastair J.J. Wood, MD (Chair)
Weill Medical College of Cornell University
Symphony Capital, LLC

Investigators in the Pathogenesis of Infectious Diseases

To better understand disease pathogenesis, we need bold researchers to explore new avenues of inquiry across fields. The Investigators in the Pathogenesis of Infectious Diseases (PATH) award supports assistant professors to pursue high-risk, high-reward projects and become innovators in infectious disease research.

This competitive award provides \$500,000 over five years to a U.S. or Canadian investigator with an established record of independent research.

BWF encourages multidisciplinary submissions studying all types of pathogens (bacterial, viral, fungal, etc.) and their underlying mechanisms of infection, colonization, or commensalism at the molecular or systemic level. We are especially interested in research examining links between climate change and pathogen-host interactions.

2023 Awardees

Mariana Byndloss, DVM., PhD
Vanderbilt University

Yi-Wei Chang, PhD
University of Pennsylvania

Tamia Harris-Tryon, MD, PhD
University of Texas Southwestern
Medical Center-Dallas

Maayan Levy, PhD
University of Pennsylvania

Shruti Naik, PhD
New York University School of Medicine

Andrea Reboldi, PhD
University of Massachusetts
Medical School

Marta Rodriguez-Garcia, MD, PhD
Tufts University

Jing Yan, PhD
Yale University

Advisory Committee

Craig E. Cameron, PhD
University of North Carolina-Chapel Hill

Blossom Damania, PhD (Co-Chair)
University of North Carolina-Chapel Hill

Maurizio Del Poeta, MD
Stony Brook School of Medicine

Joanne Engel, MD, PhD
University of California-San Francisco

Katherine A. Fitzgerald, PhD
University of Massachusetts
Medical School

Michael Glickman, MD
Memorial Sloan Kettering Cancer Center

Christopher A. Hunter, PhD
University of Pennsylvania School
of Veterinary Medicine

Denise Kirschner, PhD
University of Michigan School
of Medicine

Carolina Lopez, PhD
Washington University School
of Medicine

Daniel Mucida, PhD
The Rockefeller University

Eric Skaar, PhD, MPH (Co-Chair)
Vanderbilt University Medical Center

Next Gen Pregnancy Initiative

To accelerate discovery and encourage collaboration between reproductive scientists and translational scientists, BWF supports the Next Gen Pregnancy Initiative (NGPI). This program funds individual investigators or multi-investigator teams studying the underlying mechanisms of healthy pregnancy and adverse perinatal outcomes.

NGPI provides up to \$500,000 over four years to U.S. or Canadian investigators at career levels ranging from postdoctoral fellow to senior, established investigator.

Research teams are also eligible for this award if at least one member has training or expertise outside of

reproductive medicine. Collaborations between institutions are welcome.

BWF encourages applications studying the development of therapeutic interventions as well as new diagnostic, screening, and real time data capture tools. Particular areas of interest include climate change and the environmental impact on pregnancy, complications associated with ART, epigenome-wide association studies, preterm birth risk stratification using AI and machine learning, and biological mechanisms underlying racial disparities in adverse pregnancy outcomes.

2023 Awardees

Melissa Bauman, PhD
University of California, Davis

Elizabeth Crouch, MD, PhD
University of California-San Francisco

James Gardner, MD, PhD
University of California-San Francisco

Serena Gumusoglu, PhD
University of Iowa

Eldin Jasarevic, PhD
University of Pittsburgh

Frank Lee, MD, PhD
University of Pennsylvania

Gabrielle Rizzuto, MD, PhD
Memorial Sloan-Kettering Cancer Center

Advisory Committee

Irina Burd, MD, PhD
University of Maryland School of Medicine

Laura Ensign, PhD
Johns Hopkins University

Susan Fisher, PhD
University of California-San Francisco

Tippi C. MacKenzie, MD
University of California-San Francisco

Amy P. Murtha, MD
Rutgers, the State University of New Jersey-New Brunswick

Mana Parast, MD, PhD
University of California-San Diego

Hyagriv N. Simhan, MD, MS
University of Pittsburgh School of Medicine

Jerome F. Strauss, III, MD, PhD (Chair)
Virginia Commonwealth University

Postdoctoral Diversity Enrichment Program

Innovative and cutting-edge research demands collaboration from a diverse pool of scientific minds—especially among early career scientists. The Postdoctoral Diversity Enrichment Program (PDEP) intends to enhance the postdoctoral experience for trainees from an underrepresented minority. PDEP supports research-related activities (e.g. workshops, courses, travel, training), the postdoctoral supervisor-trainee relationship (career and research guidance and annual mentor meetings hosted by BWF), and networking with peers.

To fund the next generation of diverse researchers, PDEP provides a total of \$60,000 over three years to up to U.S and Canadian postdoctoral trainees who belong to an underrepresented minority (American Indian or Alaska Native, Black or African American, Hispanic, or Native Hawaiian or other Pacific Islander). Candidates must be within 5 years of their PhD, in a postdoctoral position with funding, and have no more than 48 months of postdoctoral experience.

2023 Awardees

Roberto Alers-Velazquez, PhD
Dartmouth College

James Randolph Allen, PhD
Harvard Medical School

Jhullian Alston, PhD
Harvard Medical School

Joshua Ames, PhD
University of Washington

Christopher Bourne, PhD
University of Pennsylvania, Perelman School of Medicine

Daril Evan Brown, II, PhD
University of California-Davis

Joshua Burrow, PhD
Brown University

Marco Carpenter, PhD
University of Pennsylvania

Luis Cedeno-Rosario, PhD
University of Utah

Gabriela Lizana Carrillo, PhD
Harvard Medical School

Sade Williams Clayton, PhD
Washington University in St. Louis

Lorianna Marie Colon, PhD
University of Pennsylvania

Roxana Coreas, PhD
University of California-Berkeley

Alberto Corona, PhD
Icahn School of Medicine at Mount Sinai

Laura Rosalba Cortes, PhD
University of California-Los Angeles

Felicia Davatolhagh, PhD
University of California-Los Angeles School of Medicine

Eva Carolina González Díaz, PhD
University of California-San Francisco

Jonnelle Edwards-Glenn, PhD
Case Western Reserve University School of Medicine

Colwyn Headley, PhD
Stanford University

Carol Ochoa, PhD, MPH
University of California, San Diego

Dayna Christine Patterson, PhD
Northwestern University

Ivan Santiago, PhD
McLean Hospital

Solange Majewska Saxby, PhD
University of Iowa

Jazma Tapia, PhD
City of Hope Comprehensive Cancer Center

Janette Vazquez, PhD
University of Texas Health Science Center at San Antonio

Advisory Committee

Ishmail Abdus-Saboor, PhD
Columbia University

Joey V. Barnett, PhD
Vanderbilt University

Kami Kim, MD (Chair)
University of South Florida

Markita del Carpio Landry, PhD
University of California-Berkeley

George M. Langford, PhD
Syracuse University

Gina R. Poe, PhD
University of California-Los Angeles

Blanton S. Tolbert, PhD
Case Western Reserve University

Resident Faculty Scholar

Over the course of innovative careers, taking time away from home can be both restorative and inspiring. The Resident Faculty Scholar Grant Program is to support U.S. and Canadian faculty members at all career levels who want to utilize BWF for mini-sabbaticals and project incubation. The nature of the mini sabbaticals/ project

incubation sessions will be quite flexible and is envisioned to support work at the BWF for two to six months. Funding can support travel, lodging, meetings, and faculty salary, and office space, computer access, meeting facilities, and other dry laboratory resources are available on site.

2023 Awardees

Dan Jay, PhD
Tufts University

Charles Nunn, PhD
Duke University

Science and the Arts

The connection between science and the arts is essential to the advancement of knowledge and creativity. Both fields share the common goal of understanding the world around us and exploring new ideas.

The arts and science connection is crucial for addressing complex societal challenges. For instance, climate change is a complex issue that requires both scientific understanding and creative solutions. Scientists provide data and research to inform policy decisions, while artists

use their platforms to communicate the urgency of the issue and inspire action through better storytelling.

In education, integrating science and the arts can enhance student learning and engagement. Interdisciplinary projects that combine science and art can help students develop critical thinking skills and creativity while also fostering a deeper appreciation for both fields.

The adhoc grant funding mechanism supports work in this area.

Science and Philanthropy

To power discovery in the frontiers of greatest need, the Burroughs Wellcome Fund also supports research activities and career development for scientists outside of our competitive award programs who do work related to our targeted areas.

We prioritize working with nonprofit organizations and government agencies to financially support our targeted areas of research, as well as encouraging other foundations to support biomedical research.

The adhoc grant funding mechanism supports work in this area.

Science Communication

Science journalism and communications serve a critical role in enabling a scientifically literate society. The Burroughs Wellcome Fund has made science communication an area of strategic focus, awarding noncompetitive adhoc grants (adhocs) for science communication and science in the arts activities.

Proposals should be focused on one or more of the following areas: science communication planning and strategy among BWF audiences; science journalism and communication to encourage public engagement with science; strategies to deter misinformation in science communication; and initiatives that advance and inspire the wonder, awe, and promise of science.

The adhoc grant funding mechanism supports work in this area.

Student STEM Enrichment Program

To nurture the next generation of North Carolina scientists, the Student STEM Enrichment Program (SSEP) supports the creation of science enrichment programs outside of normal school hours. These programs are an effective way to increase K-12 students' understanding and appreciation of STEM and encourage them to pursue research careers.

SSEP awards up to \$180,000 over three years to a non-profit organization in NC that enables students to explore inquiry-based approaches to STEM activities and explore scientific and inquiry-based methods.

2023 Awardees

Digi Bridge

Advancing STEM Education through Digi-Bridge Programming and Robotics Squads

Global Health Connections International

Preparing For My Future "FULL STEAM (Science Technology Engineering Arts Math) AHEAD"

Hickory Day School

Lego Education Robotics Club & FIRST Lego League Team

High Point University

STEMtastic Adventures

North Carolina Aquarium

A Year of STEM at the North Carolina Aquariums

North Carolina Museum of Natural Sciences

North Carolina Young Scientist Society

Partners In Ministry

Career and Exploration STEM Academy (CESA)

Patterson School Foundation

Appalachian Appropriate Technology Camp

Surry County Schools

Emerging Medical Leaders Program

Triangle Land Conservancy

The Pathways into Natural Environments and Science (PINES) Fellowship

University of North Carolina-Chapel Hill

Geo-Health Interns: Geoscience and Environmental Health Career Connections for Robeson County High School Students

University of North Carolina-Chapel Hill

Morehead Planetarium and Science Center Saunders Science Scholars Program Support

Wayne County Public Schools

STEM Adventures

Advisory Committee

Rocio Anderson

North Carolina Society of Hispanic Professionals

John E. Burris, PhD

Burroughs Wellcome Fund

Yolanda Comedy, PhD

American Association for the Advancement of Science

Connie Locklear

Public Schools of Robeson County

Eric D. Pakenham

US Department of Education
Utah State University

Celestine Pea, PhD

STEM Education Consultant

Report on Finance

The Burroughs Wellcome Fund's investments totaled \$782.7 million at August 31, 2023, the end of our fiscal year. BWF's primary financial goal is to pursue an investment strategy that will support annual spending needs and maintain a constant real level of assets over the long term. To achieve this goal, a high percentage of our investments are placed in strategies that derive the bulk of their returns from exposure to U.S. and international capital markets. Hence, fluctuations in BWF's investment results will be due largely to variability in capital market returns.



BWF's investment policies are developed with the recommendations and review of the Investment Committee, which is appointed by and reports to BWF's Board of Directors. The committee, which meets three times a year, has seven voting members, including five representatives from outside BWF and two representatives of our board. The board's chair, BWF's president, and BWF's vice president for finance also serve on the committee as nonvoting members.

As part of BWF's investment strategy, we have established "allocation targets"--that is, percentages of our total assets to be invested in particular asset classes. Investment managers hired by BWF pursue more focused mandates within each sector. As of the end of the fiscal year, BWF's asset mix and market values were:

- U.S. large capitalization equity assets had a market value of \$135.2 million. The sector's target allocation was 20 percent, and actual holdings stood at 17.3 percent.
- U.S. small capitalization equity assets had a market value of \$143.0 million. The sector's target allocation was 14 percent, and actual holdings stood at 18.3 percent.
- International equity assets had a market value of \$144.1 million. The sector's target allocation was 22 percent, and actual holdings stood at 18.4 percent.
- Fixed income assets had a market value of \$119.2 million. The sector's target allocation was 13 percent, and actual holdings stood at 15.2 percent.
- Cash equivalent assets had a market value of \$10.7 million. The sector's target allocation was 1 percent, and actual holdings stood at 1.4 percent.
- Alternative assets had a market value of \$230.5 million. The sector's target allocation was 30 percent, and actual holdings stood at 24.5 percent.

The total market value of BWF's investments increased by \$14.6 million, or 1.9 percent, from the end of the previous fiscal year. This small increase in assets was due mainly to decent returns for world equities during the fiscal year. BWF's total investment return before investment management fees for the fiscal year was 7.4 percent. The U.S. large capitalization equity sector returned -12.8 percent, the U.S. small capitalization equity sector had a -8.9 percent loss, the international equity sector returned 12.6 percent for the fiscal year, and fixed income produced a 1.1 percent result.

As of August 31, 2023, BWF employed 16 marketable securities investment managers. In the U.S. large capitalization equity sector, the managers were Brown Advisory; LSV Asset Management; and Martingale Asset Management. Columbia Threadneedle, Loomis Sayles, Bridge City Asset Management and Essex Investment Management managed U.S. small capitalization equities. Camden Asset Management; C.S. McKee; Rimrock Capital Management; Barings; and Amundi Pioneer were the fixed income managers. Capital Guardian Trust Company; Hardman Johnston Global Advisors; Acadian Asset Management; and Hansberger Growth Investors managed international equities. BWF also held investments in four venture capital funds: Intersouth Partners VI, Spray Venture Funds I and II and Mission Ventures II. Winston Partners managed a fund of equity oriented hedge funds. Blackrock Alternative Advisors managed a fund of absolute return strategies. Hamilton Lane Advisors managed five funds of private equity strategies and four private debt strategies. Dyal Capital managed two private equity funds. Neuberger Berman managed an insurance linked strategy, a private debt strategy, and a private equity strategy. Harbourvest managed two private equity strategies. Finally, the Fund internally managed a diversified portfolio of mainly passive investments which was named the Tactical Portfolio. The Tactical Portfolio included investments in U.S. equities, international equities and global bonds.

Statements of Financial Position

AUGUST 31, 2023 AND 2022 *(all dollar amounts presented in thousands)*

	2023	2022
ASSETS		
Cash and cash equivalents	\$ 2,085	\$ 2,495
Investments	782,659	768,062
Accrued interest and dividends receivable	1,324	801
Other assets	140	774
Property and equipment, net	6,119	6,505
Total assets	\$ 792,327	\$ 778,637
LIABILITIES AND NET ASSETS		
Transactions payable, net	\$ 2,694	\$ 3,942
Accounts payable and other liabilities	842	1,003
Excise tax payable	410	765
Deferred federal excise taxes	1,865	1,395
Unpaid awards	97,473	106,683
Total liabilities	103,284	113,788
Unrestricted net assets	689,043	664,849
Total liabilities and net assets	\$ 792,327	\$ 778,637

Statements of Financial Position

AUGUST 31, 2023 AND 2022 *(all dollar amounts presented in thousands)*

	2023	2022
REVENUES		
Interest and dividends, less investment expenses of \$2,947 and \$3,741 in 2023 and 2022, respectively	\$ 6,474	\$ 6,023
Net realized gain on sale of investments	16,972	37,454
Total revenues and realized gains	\$ 23,446	\$ 43,477
EXPENSES		
Program services	\$ 24,068	\$ 29,957
Management and general	8,294	7,303
Total expenses before net unrealized appreciation (depreciation) and deferred federal excise tax	32,362	37,260
Net unrealized appreciation (depreciation) of investments, net of provision for deferred federal excise tax (expense)/benefit of \$(470) and \$2,138 in 2023 and 2022, respectively	33,110	(165,400)
Change in net assets	24,194	(159,183)
Net assets at beginning of year	664,849	824,032
Net assets at end of year	\$ 689,043	\$ 664,849

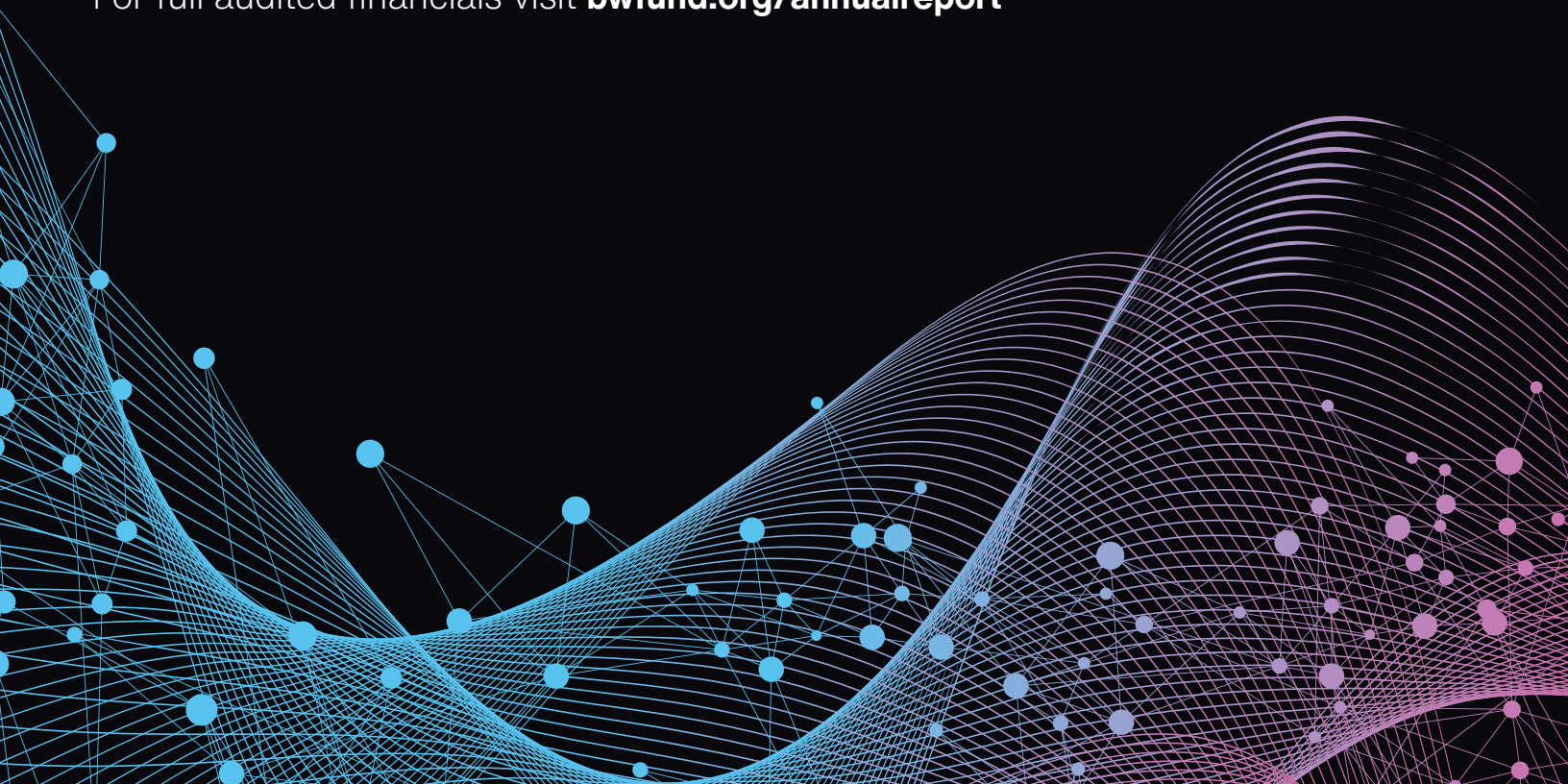
Grant Awardee Index

BWF makes all grants to nonprofit organizations. For most of the programs, the name of the individual on whose behalf the grant is made is listed first, the title of the award recipient's project is listed second, and the name of the organization that received the money is listed third.

For programs that may have coaward recipients, the award recipients and their organizations are listed first, followed by the project title. For grants made directly to organizations and not on behalf of an individual, the name of the organization is listed first, followed by the title of the project or a brief description of the activity being supported.

In addition to making competitive awards, BWF makes noncompetitive grants—Ad Hocs—for activities that are closely related to our major focus areas. These grants are intended to enhance the general environment for research in the targeted areas.

For full audited financials visit [bwffund.org/annualreport](https://www.bwffund.org/annualreport)



Program Summary

AUGUST 31, 2023

	Awarded Net of Cancelled	Amount Paid	Percentage of Total Paid
BIOMEDICAL SCIENCES			
Career Awards in the Medical Sciences	\$ 8,819,688	\$ 6,607,500	
Physician-Scientist Institutional Award	–	2,750,000	
Resident Faculty Scholars	175,000	125,000	
Ad Hoc	680,100	450,100	
Total	\$ 9,674,788	\$ 9,932,600	29.0%
CLIMATE CHANGE AND HUMAN HEALTH			
Climate and Health Interdisciplinary Award	\$ 750,000	187,500	
Climate Change and Human Health Seed Grants	\$ 407,260	358,086	
Total	\$ 1,157,260	\$ 545,586	1.6%
DIVERSITY IN SCIENCE			
Graduate Diversity Enrichment Program	\$ 40,000	\$ 27,500	
Postdoctoral Diversity Enrichment Program	1,517,838	952,918	
Ad Hoc	635,757	1,286,897	
Total	\$ 2,193,595	\$ 2,264,397	6.6%
INFECTIOUS DISEASES			
Career Guidance for Trainees	\$ 107,128	\$ 87,500	
Investigators in Pathogenesis of Infectious Disease	4,533,489	5,033,490	
Ad Hoc	803,525	944,525	
Total	\$ 5,444,142	\$ 6,065,515	17.7%
INTERFACES IN SCIENCE			
Career Award at the Scientific Interface	\$ 4,511,391	\$ 4,390,793	
Ad Hoc	362,563	986,775	
Total	\$ 4,873,954	\$ 5,377,568	15.7%

Program Summary

AUGUST 31, 2023

	Awarded Net of Cancelled	Amount Paid	Percentage of Total Paid
POPULATION SCIENCES			
Institutional Program Unifying Population and Laboratory-based Sciences	-	166,632	
Total	\$ -	\$ 166,632	0.5%
REGULATORY SCIENCE			
Innovation in Regulatory Science Awards	\$ 2,500,000	\$ 1,420,000	
Ad Hoc	427,337	417,337	
Total	\$ 2,927,337	\$ 1,837,337	5.4%
REPRODUCTIVE SCIENCES			
Next Gen Pregnancy Initiative	\$ 3,494,676	\$ 2,874,335	
Ad Hoc	\$ 317,158	\$ 376,458	
Total	\$ 3,811,834	\$ 3,250,793	9.5%
SCIENCE AND PHILANTHROPY			
Ad Hoc	\$ 1,608,557	\$ 1,473,557	
Total	\$ 1,608,557	\$ 1,473,557	4.3%
SCIENCE EDUCATION			
Career Award for STEM Teachers	\$ 700,000	\$ 300,000	
Promoting Innovation in Science and Mathematics	3,702	3,702	
Student STEM Enrichment Program	86,540	1,588,023	
Ad Hoc	1,137,150	1,394,650	
Total	\$ 1,927,392	\$ 3,286,375	9.6%
GRAND TOTAL	\$ 33,618,859	\$34,200,360	100%

For full audited financials visit bwfund.org/annualreport

Biomedical Sciences

American Physician Scientists Association (APSA)

Support for the American Physician Scientists Association initiatives and joint meeting for 2022-2023

American Physician Scientists Association (APSA)

The American Physician Scientists Association: Empowering Physician Scientists in Training

American Society for Cell Biology

Support for the Cell Bio 2022 Annual Meeting, December 3-7, 2022

American Society for Clinical Investigation

Support for ASCI/AAIM/BWF Research Pathway Directors Annual Workshop

Association for Clinical and Translational Science

Support for Translational Science 2023: Innovating Translational Science for Research

Children's Hospital Los Angeles

Support for the Children's Hospital Los Angeles Stepping Stone Program for Pediatric Scientists

Clinician Investigator Trainee Association of Canada (CITAC-ACCFC)

Support for CITAC-CSCI Annual Joint Meeting 2022

Duke University

Support for RSDP Meeting Support 2022-2023

Gordon Research Conferences

Support for Germinal Stem Cell Biology

Indiana University

Support for the Medical Physician Engineers, Scientists, and Clinicians Preparatory Program [MPESC-Prep]

Johns Hopkins University School of Medicine

Support for Johns Hopkins Initiative for Careers in Science and Medicine: Summer Academic Research Experience

Keystone Symposia

Support for Keystone Symposia Diversity Initiatives 2023

McLean Hospital (The McLean Hospital Corp.)

Support for McLean Mental Health Research Summer Program

Northwestern University

Support for Chicago Biomedical Consortium: BIPOC in Biotech

Partners In Health

Support for Developing Research Capacity in Sierra Leone

Physician-Scientist Support Foundation

Support for PSSF Medical Scholars Research Fellowship

Society for Neuroscience

Support for the SfN Trainee Professional Development Award

Society for Neuroscience

Support for Supporting Early-Career Neuroscientists: Trainee Professional Development Award (TPDA) Program 2023-2025

The Regents of the University of California, San Diego

Support for San Diego Glycobiology Symposium

Diversity in Science

American Association for the Advancement of Science

Support for 2023 AAAS Annual Meeting

American Society for Cell Biology

PAIR-UP Gift from Dr. Tolbert

American Society for Microbiology

Future Leaders Mentoring Fellowship

Bennett College

Bennett College Teacher Residency Program

Center for Racial Equity in Education

The 2022 NC10 HBCU Conference – Partners in Progress

Community Partners

Creation of a Diversity Postdoc Leadership Retreat

Consortium of Universities for Global Health

Co-Sponsorship 20th Anniversary NIH Fogarty Global Health Fellows

ECPS Educational Foundation

Burroughs Wellcome Fund Scholar Teacher Scholarship

Health Effects Institute

HEI Summer Fellowship Award

Livingstone College

Ad Hoc Grant

National Humanities Center

S.E.E.D. Fellows Cohort III

North Carolina Agricultural & Technical State University

Recruiting and Retaining a Diverse and Culturally Responsive Teacher Workforce

North Carolina Central University

North Carolina Teacher Residencies

North Carolina Community Foundation

Invest Early NC

Partners for Environmental Justice

Our Creeks. Our Communities Festival

Region O Council for the Advancement of Minorities in Engineering (ROCAME)

Drone Aviation Camp

Renewed Covenant Outreach Foundation

MANiFest – Fuquay Varina

Saint Augustine's College

NC10 Teacher Residency Initiative

Shaw University

North Carolina Teacher Residency Recruitment

The Board of Trustees of the Leland Stanford Junior University

Advancing Health Equity and Diversity

The Community Music School

URM Scholarship

The University of North Carolina at Chapel Hill

MPSC Equity in STEM Convening Meeting – 2023

The University of North Carolina at Chapel Hill

Promoting Environmental Justice and Health Equity in Perinatal Health Research

Trustees of Boston University

Boston University BEAMS Summer Biomedical Research Internship Program 2023

University of Florida

Postdoctoral Diversity Enrichment Program Transition to Faculty Award

University of Florida

Travel Grant, 2023 SACNAS Conference

University of Washington

Postdoctoral Diversity Enrichment Program Transition to Faculty Award

West Virginia University Research Corporation

Postdoctoral Diversity Enrichment Program Transition to Faculty Award

Working To Extend Anti-Racist Education

Cohorting With Educators of Color: Supporting the Teacher Pipeline

Yale University School of Medicine

Postdoctoral Diversity Enrichment Program Transition to Faculty Award

General Philanthropy

Association for Women in Science

Support for AWIS mission to champion the interests of women in science across all disciplines and employment sectors

Association of Public and Land-grant Universities

Support for “Creating a Pathway for Implementation to Modernize Scholarship for the Public Good”

Candid

Support for “Connecting Nonprofits to the Resources They Need to Thrive”

Ciencia Puerto Rico, Inc.

Support for Emergency Fund for Ciencia Puerto Rico

Hopewell Fund

Support for “Science in Society Funder Collaborative”

Media Impact Funders

Support for one year organizational membership with Media Impact Funders

National Humanities Center

Support for Humanities, Science & Technology Fellowship

New Venture Fund

Support for the Open Research Funders Group

North Carolina Biotechnology Center: Triangle Women in STEM

Support for 2023 Triangle Women in STEM Signature Speaker Event

North Carolina Community Foundation

Support for 2023 NCNG Annual Meeting and Conference: Better Together

North Carolina Community Foundation

Support for Communications Initiative Training 2023

PEAK Grantmaking, Inc.

Support for 2022-2023 Membership Dues

Triangle Community Foundation

Support for “Celebrating 40 Years of Impact in the Triangle with Triangle Community Foundation”

SCIENCE + ART

National Geographic Society

Support for a planning Grant for Álvaro Laiz Project, The Giant Silence

The University of Texas at Austin

Support for Arts-Science Landscape Assessment Project

Tufts University (Archived)

Support for a symposium to be held at BWF in September 2023 to develop an Art-Science Institute

Women Make Movies

Support for “Six Degrees From Science” documentary film

SCIENCE COMMUNICATIONS

Aspen Institute

Support for “What’s Next in Bioinnovation?”

Association of Science Communicators (formerly Science Talk)

Support for professional development for science communicators

Catholic University of America

Support for the “Beauty in Science 2023” Meeting

Center for Excellence in Health Care Journalism

Support for Journalism Core Curriculum on Infectious Disease

Center for Excellence in Health Care Journalism

Support for Health Journalism 2023 Annual Conference held March 9-12 in St. Louis, MO

Ciencia Puerto Rico, Inc.

Support for “Reflexivity Workbook: A Tool for Inclusive and Equitable Civic Science and Public Engagement”

Community Initiatives

Support for ComSciCon-Flagship 2023 conference on science communication for graduate students

EducationNC

Support for General Operating Support: EducationNC’s Focus on STEM

Food and Environment Reporting Network

Support for Coverage of Biomedical Research & Science Communication Training

Future Kings

Support for The National Public Health Media Campaign to promote wellness and reduce health disparities through community partnerships and a national media outreach program

North Carolina Biotechnology Center

Support for a 2023 NASW/SCONC Summer Science Communication Internship

North Carolina State University

Support for three year NC STEM Policy Fellows program (2023-2025)

Research!America

Support for Burroughs Wellcome Fund Science Policy and Communications Internship Program

ScienceCounts Inc.

Support for ScienceCounts

The Henry J. Kaiser Family Foundation

Support for KFF Health News’s Public Health Podcasting

The Open Notebook, Inc.

Support for Early-Career Science Journalism Fellowship Program

Infectious Disease

American Association of Veterinary Medical Colleges

Becoming Faculty Workshop, Aug 3-5, 2023

American Society for Microbiology

ASM Career & Professional Development Initiatives for Trainees

American Society for Virology

42nd Annual Meeting of the American Society for Virology, June 24-28, 2023

American Society of Tropical Medicine and Hygiene

Support for the ASTMH 71st Annual Meeting held in Seattle, WA, October 30 - November 3, 2022

American Society of Tropical Medicine and Hygiene

ACMCIP Scientific Sessions, ASTMH 2023 Annual Meeting, October 18-22

Bacterial Locomotion and Signal Transduction

Trainee Scholarships to Attend BLAST XVII Meeting, January, 2023

Canadian Association of Postdoctoral Administrators

National Conference of the Canadian Association of Postdoctoral Administrators, Oct 31-Nov 1, 2022

Center for Open Science

Support for the Center for Open Science in Charlottesville, VA in lieu of 2023 honoraria to Dr. Maryrose Franko for BWF CGT Advisory Committee service

Cornell University

7th National Colloquium for Combined DVM-PhD Biomedical Scientists, Aug 2-3, 2023

Cornell University

Burroughs Wellcome Fund "Becoming Faculty" Workshop, Aug 3-5, 2023

Dalhousie University

72nd Annual Conference of the Canadian Society of Microbiologists, June 25-28, 2023

Dana-Farber Cancer Institute

Sponsorship of the 2023 Symposium on the Immune System of Bacteria, Feb 23-Mar 3, 2023

Duke University

Support for PATH awardee Dr. Nan Yan to present a seminar at Duke, hosted by PATH awardee Jorn Coers, May 17-29, 2023

FASEB Journal

Microbial Pathogenesis: Mechanisms of Infectious Disease, July 9-13, 2023

Genetics Society of America

Registration and Travel Awards for GSA Conferences

Gordon Research Conferences

Conference on Salmonella Biology and Pathogenesis, July 23-27, 2023

Gordon Research Conferences

Conference on Neuroimmune Communication in health and disease, Jan 22-27, 2023

Gordon Research Conferences

Conference on Molecular and Cellular Diversity in Host Defense and Inflammation, June 4-9, 2023

Gordon Research Conferences

Conference on "Reinvigorating Malaria Control, Prevention and Treatment: From Bench to Bedside to Bednets", May 28-June 2, 2023

Gordon Research Conferences

Conference on the Immunology of Fungal Infection, January 21-27, 2023

Gordon Research Conferences

Conference on Microbial Adhesion and Stress Response, July 15-21, 2023

Graduate Career Consortium

2023 Annual Conference Funding

Johns Hopkins University School of Medicine

Support for CAMS awardee Josephine Thinwa to present a seminar at Johns Hopkins, hosted by PATH awardee Arturo Casadevall on May 18, 2023

Marine Biological Laboratory

Support for Biology of Parasitism: Modern Approaches Advanced Research Training Course Renewal for 3 years (2023-2025)

Midwinter Conference of Immunologists

61st Midwinter Conference of Immunologists, Jan 28-31, 2023

Morgridge Institute for Research

Molecular Helminthology: from fundamental biology to practical applications, June 26-29, 2023

Northwestern University

29th Annual Midwest Microbial Pathogenesis Conference (MMPC), Oct 20-22, 2023

Sena Institute of Technology Foundation

Imaging Cellular and chromosome dynamics Conference, 2023

Stanford University School of Medicine

Department of Microbiology and Immunology Wednesday Seminar Series: Manuel Llinas (host by John Boothroyd), May 24, 2023

Stanford University School of Medicine

Department of Microbiology and Immunology Wednesday Seminar Series: Nels Elde (host by Jan Carette), April 12, 2023

Stanford University School of Medicine

Department of Microbiology and Immunology Wednesday Seminar Series: Sophie Helaine (host by Denise Monack), February 22, 2023

Stanford University School of Medicine

Department of Microbiology and Immunology Wednesday Seminar Series: Gretchen Diehl (host by Justin Sonnenburg), November 9, 2022

The Board of Trustees of the University of Illinois-Chicago

8th International Conference on Gram Positive Pathogens, Oct 9-12, 2022

The Board of Trustees of the University of Illinois Urbana-Champaign

Midwest Neglected Infectious Diseases (MNID) meeting, Aug 11-12, 2023

The Pennsylvania State University

The Pennsylvania Parasitology Conference, July 20-21, 2023

The Regents of the University of California-San Francisco

Bay Area Microbial Pathogenesis Symposium, March 25, 2023

The Trustees of the University of Pennsylvania

26th annual Woods Hole Immunoparasitology (WHIP) Meeting, April 20-23, 2023

The University of North Carolina at Chapel Hill

12th Mid-Atlantic Microbial Pathogenesis Meeting, Feb 5-7, 2023

The University of Texas Medical Branch at Galveston

Support for PATH awardee Matthew Evans to present a seminar at UTSW, hosted by PATH awardee Vineet Menachery, May 2, 2023

The University of Texas Southwestern Medical Center

Support for PATH awardee Matthew Daugherty to present a seminar at UTSW, hosted by PATH awardee Julie Pfeiffer, Oct 18, 2022

The University of Texas Southwestern Medical Center

Support for PATH awardee Sunny Shin to present a seminar at UTSW, hosted by PATH awardee Kim Orth, March 14, 2023

The University of Texas Southwestern Medical Center

Funding for meeting: Parasitic Helminths: New Perspectives in Biology and Infection, Sept 3-7, 2023

The University of Texas Southwestern Medical Center

Support for PATH awardee David Veessler to present a seminar at UTSW, hosted by PATH awardees Jim Collins and Michael Reese, April 13, 2023

University of Pittsburgh

Second Pittsburgh Rust Belt Microbiome Meeting, Nov 3-4, 2022

University of Wisconsin-Madison (Board of Regents University of Wisconsin System)

Support for PATH awardee Denise Monack to present a seminar at University of Wisconsin-Madison, hosted by PATH awardee Vanessa Sperandio, April 28, 2023

University of Wisconsin-Madison (Board of Regents University of Wisconsin System)

Dr. Daniel Jay to present a seminar at University of Wisconsin-Madison, hosted by Dr. Christina Hull, April 14, 2023

University of Wisconsin-Madison (Board of Regents University of Wisconsin System)

PATH awardee Gianna Hammer to present a seminar at University of Wisconsin-Madison, hosted by PATH awardee JD Sauer, Feb 17, 2023.

University of Wisconsin-Madison (Board of Regents University of Wisconsin System)

PATH Awardee Dr. Dan Stetson to present a seminar at University of Wisconsin-Madison, hosted by Dr. Andrew Mehle, May 5, 2023

Washington University, School of Medicine

Gordon Research Conference on Staphylococcal Diseases: New Insights into Staphylococcal Biology, Disease Mechanisms and Treatment, July 30-Aug 4, 2023

Weill Medical College of Cornell University

Supporting PATH research and interactions at the Tri-Institutional Immunology & Microbial Pathogenesis Graduate Group Retreat, Oct 20-21

Interfaces in Science

American Institute of Chemical Engineers

Support for the the Rockstars of Regenerative Engineering, Synthetic Biology, Evolution, Engineering & Design (SEED), AfroBiotech, and the AIChE Annual Meeting

Biophysical Society

Support for the Biophysical Society 67th Annual Meeting, February 18-22, 2023

Computational and Systems Neuroscience (Cosyne)

Support for the 2023 Computational and Systems Neuroscience meeting

Georgia Institute of Technology

QBioS Hands-On Modeling Workshop – Modeling and Analyzing Viral Dynamics at the Atomistic Scale

Gordon Research Conferences

Support for the 2023 Nitric Oxide Gordon Research Seminar

International Society for Stem Cell Research

Support for the ISSCR Stem Cell Standards Initiative

Northwestern University

Support for the first Quantitative Biology Symposium, June 8, 2023

Society for Biomaterials

Support for the BWF BioInterfaces Rising Star Award, April 19-22, 2023

Society of Toxicology

Support for the SOT Annual Meeting, March 19-23, 2023

Society of Women Engineers

Support for the Academic Leadership for Women in Engineering Conference

The Regents of the University of California-San Diego

Support for the 10th Annual Winter Q-Bio Meeting

The University of Chicago

Support for the SEE-Diversity Workshop, August 2023

Tissue Engineering & Regenerative Medicine International Society (TERMIS)-Americas

Support for the TERMIS-AM Annual Conference (Platinum Level Sponsorship), April 2023

University of North Texas Health Science Center at Fort Worth

So, You Got a PhD...What's Next? Career Seminar Series

University of Texas Health Science Center at San Antonio

Support for the National IRACDA Conference, June 2023

University of Utah

Support for the Rising Stars Postdoc Symposium to Support Faculty Diversity in Biochemistry

University of Washington

Support for the BRAINS Cross-Cohort Symposium in Fall 2023

University of Wisconsin-Madison (Board of Regents University of Wisconsin System)

Support for the 2022 Central US Synthetic Biology Workshop

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University of Wisconsin-Madison (Board of Regents University of Wisconsin System)

Support for the 2022 Central US Synthetic Biology Workshop

Regulatory Sciences

Advantium Health Network Inc.

Support for the continuation of CARAT (Center for Animal Research and Alternative Technologies)

American Cancer Society

Support for the Diversity in Cancer Research Internship Program

American Society of Gene Therapy

Support for ASGCT's DEI Awards and Underrepresented Population Travel Awards

EveryLife Foundation for Rare Diseases

Support for the Diversity Inclusion Initiative of the Foundation

Federation of American Societies for Experimental Biology

Support for the FASEB Scientific Research Conference on Hematological Malignancies, August 2023

Foundation for Food and Agriculture Research

Support for the Kirchner Food Fellowship HBCU Cohort

Health Research Alliance, Inc.

Support for 2023

International Society for Cell & Gene Therapy

Support for the ISCT-ASTCT Cell Therapy Training Course, October 23-27, 2023

International Society for Stem Cell Research

Support for the ISSCR 2023 Annual Meeting & ISSCR Next Generation Organoids Digital Series

Massive Analysis and Quality Control Society

Support Emerging Technologies and AI for Regulatory Science Application

National Academy of Sciences

Support for the Forum on Drug Discovery, Development, and Translation

New York Stem Cell Foundation, Inc.

Support for the NYSCF Conference, October 18-19, 2022

Partnership for Cures

dba Cures Within Reach

Support of Community-Based Engagement within Clinical Repurposing to Impact Diversity, Equity and Inclusion

Phages For Global Health

Support Developing Guidelines for Phage Banks: A Vital Tool Against Antimicrobial Resistance

Project Data Sphere

Support for follow-up activities of the Burroughs Wellcome Fund and the CEO Roundtable's Project Data Sphere Salon on Immunotherapy-Related Adverse Events

Reagan Udall Foundation for the FDA

Support for the Fellowships in Regulatory Science, Innovation, and Health Equity

The University of North Carolina at Chapel Hill

Support for Annual Scholarships for Enrollment in Regulatory Science Educational Offerings

Reproductive Science

American Society for Reproductive Immunology

Support for 42nd Annual Meeting of the American Society for Reproductive Immunology (“ASRI 2023”)

Baylor College of Medicine

Support for 30 Years of (Re)Productive Biology: A Symposium Honoring Professor Martin M. Matzuk, MD, PhD

Curators of the University of Missouri

Support for BWF/RSDP Scholar

Gordon Research Conferences

Support for the Conference: Fertilization and the Activation of Development

International Federation of Placenta Associations

Support for 2023

National Academy of Sciences

Support for a Workshop on *In Vitro* Derived Human Gametes as a Reproductive Technology: Scientific, Ethical, and Regulatory Implications

Perinatal Research Society

Support for Perinatal Research Society Annual Meeting

Society for Reproductive Investigation

Support for the SRI 70th Annual Scientific Meeting

Society for the Study of Reproduction

Support for SSR 56th Annual Meeting – Reproductive Sciences: From Innovation to Impact

The University of Texas at Arlington

Support for 2023 Black Maternal and Reproductive Health Summit

Yale University

Support for A Cell Interaction Atlas of the Three Species Model for Menstruation Biology

Science Education

Afterschool Alliance

Collective for Youth Engagement in STEM & Society (CYESS): Innovation Pilot Groundwork - Identifying Models

Apex Friendship High School

Professional Development; 2023 CASMT Finalist

Association of Science-Technology Centers Incorporated

ASTC 2023 Annual Conference – DAIEJ Track Sponsorship

Dillard Drive Magnet Middle School

Professional Development; 2023 CASMT Finalist

Envision Excellence in STEM Education

Ideate. Innovate. Implement: STEM Learning Ecosystems Convening 2023

Gates County Community Partnership

Gates County Youth Enrichment Initiative

Grantmakers for Education

Launch of the Equity & Grantmaking Impact Group

Grassroots Science Museums

Collaborative (North Carolina Science Network)

North Carolina Science Network Annual Meeting and Jim Warren Memorial Fund

Holly Springs High School

Professional Development; 2023 CASMT Finalist

Kenan Fellows Program

Diversity in Leadership Fellowships

Kidzu Children’s Museum

The Questioners

McDowell County Schools

Support for the Singapore Math Project: Building a Strong Math Foundation Through Constructing, Drawing, and Solving, a proposal by Eastfield Global Magnet School, McDowell County Schools (Phase VI)

Movement Strategy Center

Ensuring DEIA in Science Education – Representation Matters

Nash Community College

SSEP rural areas program development, 2023-2024

National Association of Academies of Science

American Junior Academy of Science

NC Tennis Foundation, Inc.

NC Tennis Foundation 3rd Virtual Tennis “Ball” & Auction Gold Ball Sponsorship to Fund Poe Center Health Science Academic Programming for statewide National Junior Tennis & Learning Chapters

New York University

High School Bioethics Project, 2023

North Carolina Agricultural & Technical State University

NC Piedmont K-12 STEM Ecosystem Planning Project (SSEP Pilot Program) – Year 2

North Carolina Department of Public Instruction

NC Teacher of the Year Regional Participation in the Educational Policy and Fellowship Program

North Carolina Science Teachers Association

Engaging Diverse Learners in Science

North Carolina Society of Hispanic Professionals

Tu Portal STEM

North Carolina State University

Reach for the Stars! Be a Star!

Orange High School

Daring to Listen: The Practice of Intergenerational Storytelling

Public School Forum of North Carolina

NC Center for Afterschool Programs – STEM Programming & Resources

Public School Forum of North Carolina

Jay Robinson Education Leadership Gala Sponsorship

Public Schools of Robeson County

Robeson County Rolling with STEAM Van

Rea Farms STEAM Academy

Professional Development; 2023 CASMT Finalist

Social and Environmental Entrepreneurs

A Journey from program participant to program advocate & advisor

Science Education – Cont'd

STEM Next Opportunity Fund

Building a Federal STEM and Tech Equity Fellowship Network

STEM West, Inc.

2023 STEM West: Building Networks!

The Development Foundation of the North Carolina Center for the Advancement of Teaching, Inc.

NCCAT Beginning Teacher of the Year Program

The University of North Carolina at Chapel Hill

North Carolina DNA Day and STEM Unity Day

Tides Center

Proposal to reduce the STEM teacher shortage with equity and belonging

University of Mount Olive

UMO 5th Annual STEM on the Green featuring UMOBILE Laboratory – 2023

University of North Carolina at Asheville

Science on the Move: a summer program on a college campus (presentation at the National Migrant Education Conference in Albuquerque, NM)

University of North Carolina Wilmington

Support for the Singapore Math Program in Cumberland County schools, including Alderman Road Elementary School, Gray's Creek Elementary School and Gallberry Farm Elementary School

University of North Carolina Wilmington

Support for the STEM SENC Singapore Summit Collaboration, 2023

SCIENCE, MATH, AND TECHNOLOGY SCIENCE CHAMPION

Morehead Planetarium and Science Center

Student Science Exploration – Growing New Researchers (NC International Science Challenge)

North Carolina Alliance for School Leadership Development

Superintendent Executive Leadership Program Cohort X

North Carolina Alliance for School Leadership Development

Aspiring Superintendent Program Cohort VII

North Carolina Association for Career and Technical Education (NCACTE)

NC STEM Schools of Distinction

North Carolina Chamber

Education & Workforce Conference

North Carolina School of Science and Math

American Junior Academy of Science and AAAS

North Carolina Science Fair Foundation

2023 North Carolina Science and Engineering Fair Foundation

Smithsonian Institution

Smithsonian Science STEAM Schools of Distinction for Sustainable Development

Successful Practices Network, Inc.

Learning 2025

University of North Carolina at Charlotte

Annual K-12 STEM Conference

University of North Carolina Wilmington

CESTEM Education Conference



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