

Creating a Vision

2019 ANNUAL REPORT

BURROUGHS
WELLCOME
FUND 

Grant Programs

Biomedical Sciences

Career Awards for Medical Scientists:

Five-year awards for physician-scientists provide \$700,000 to bridge advanced postdoctoral/fellowship training and the early years of faculty service. This award addresses the on-going challenge of increasing the number of physician-scientists and will help facilitate the transition to a career in research.

Collaborative Research Travel Grant:

Provides up to \$15,000 in support for interdisciplinary biomedical researchers from degree-granting institutions to travel to a laboratory to acquire a new research technique or to facilitate collaboration.

Physician-Scientist Institutional

Program: Supports institutional programs designed to increase the number of MD's who enter careers in research (physician-scientists). Up to 10 institutions will receive awards of \$2.5 million (\$500,000/year over 5 years) to institute their proposed activities.

Career Guidance

Career Guidance for Trainees:

Provides up to \$50,000 over a one-year period to support demonstration project that will model affordable approaches to improving trainees' readiness for stable, fulfilling careers.

Diversity in Science

Postdoctoral Enrichment Program:

Provides \$60,000 over three years to support the development of underrepresented minority postdoctoral fellows in biomedical research.

Infectious Diseases

Investigators in the Pathogenesis of

Infectious Disease: Five-year awards provide \$500,000 to support accomplished investigators at the assistant professor level in the study of infectious disease pathogenesis, with a focus on the intersection of human and microbial biology. The program aims to improve our understanding of how human hosts handle infectious challenges.

Interfaces in Science

Career Awards at the Scientific

Interface: Five-year awards provide \$500,000 to bridge advanced postdoctoral training and the early years of faculty service. These awards are intended to foster the early career development of researchers with backgrounds in the physical/mathematical/ computational/ engineering sciences whose work addresses biological questions.

Regulatory Science

Innovation in Regulatory Science

Awards: Provides up to \$500,000 over five years to academic investigators developing new methodologies or innovative approaches in regulatory science that will ultimately inform regulatory decisions.

Reproductive Science

Preterm Birth Initiative: Provides \$500,000 over a four-year period to bring together a diverse interdisciplinary group within the more traditional areas of parturition research to address the myriad questions related to preterm birth.

Science Education

Career Awards for Science and

Mathematics Teachers: Five-year awards provide \$175,000 each to eligible science or mathematics teachers in North Carolina's public primary and secondary public schools. This award recognizes teachers who have demonstrated solid knowledge of science or mathematics content and have outstanding performance records in educating children. The award is a partnership between the North Carolina State Board of Education and BWF.

Student STEM Enrichment Program:

Three-year awards provide up to \$180,000 to North Carolina nonprofit organizations, including public/private schools, universities, colleges, and museums. This program supports creative inquiry-based STEM enrichment activities that occur outside the typical school day for K-12 students. The program's goals are to nurture students' enthusiasm for science and mathematics, expose them to the excitement of scientific discovery, and interest them in pursuing careers in research or other science-related areas.

Promoting Innovation in Science and

Mathematics: Awards up to \$4,500 provide teachers with funding for materials, equipment, and training to conduct hands-on, inquiry-based science and mathematics projects in the North Carolina public schools.

For complete program information, including deadlines, please visit bwfund.org



“ In 2020, we will initiate a strategic terrain mapping exercise in which we evaluate our funding program areas and determine whether or not they are having the impact that we desire. ”

President's Message



It is with the greatest enthusiasm and appreciation that I begin my tenure as president and CEO of the Burroughs Wellcome Fund. The Fund has an extraordinary reputation and aura of prestige that has been fostered by the very successful

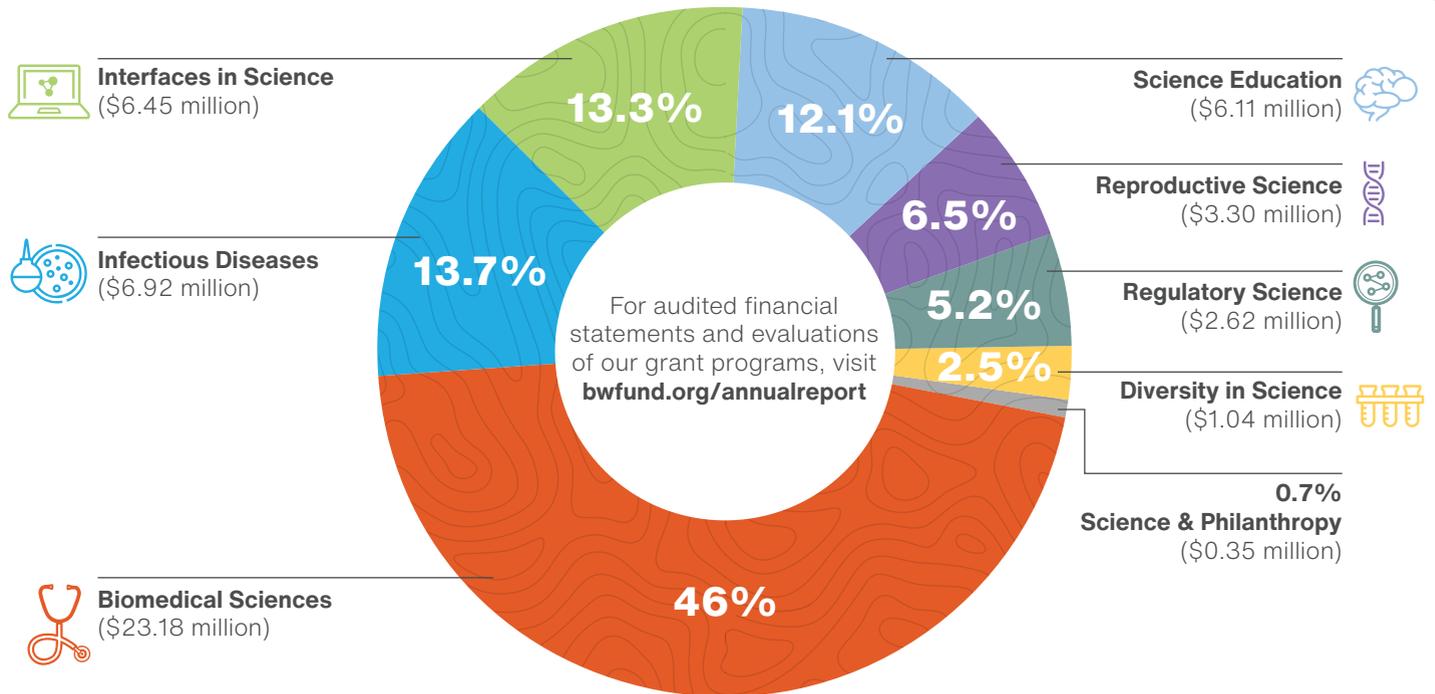
efforts of the past presidents, Drs. Enriqueta Bond and John Burris, the staff, Board of Directors, and Advisory Committee Members.

I now have the privilege and mandate of asking what is next for us as a foundation? This will enable us to think innovatively and critically about assessing our approach to grant-making. It allows us to determine how we can have the greatest impact on biomedicine and society as a whole with available resources. More than providing competitive philanthropic support, we create a community through the Burroughs Wellcome Fund among our awardees and staff. We also provide opportunities to help create and develop networks among others in biomedical research and STEM education. We will explore

opportunities for those audiences and stakeholders seeking excellence, innovation and societal impact.

In 2020, we will initiate a strategic terrain mapping exercise in which we evaluate our funding program areas and determine whether or not they are having the impact that we desire. Are we funding the best science and research? Are we recognizing the best educational programs? We hope to support talented programs, not just the best known ones, because talent is everywhere and comes in many different forms.

BWF awarded more than \$50 million in grants during fiscal year 2019



Moreover, I have a vision of the Burroughs Wellcome Fund headquarters in Research Triangle Park becoming a hub of intellectual activity for regional and national areas of interest. We hope to host more events and gatherings to discuss the important scientific topics of our time. We have an opportunity to engage in creative and constructive dialogue. This dialogue is the bridge to connect society and science to address social issues.

To help keep you informed, we will undertake a stronger social media presence to allow you to better

understand the mission of the Fund's work and its many collaborations. A recent example is our partnership with the National Academies of Science to address the connection between human health and climate change. This convening may well instigate new funding areas at the Fund.

I ask that you visit the full annual report on our website at bwfund.org/annualreport. We provide an overview of our programmatic funding and pose several questions that we ask you to consider. Please share your feedback and thoughts with us as we undergo our strategic planning efforts. Reach

out to us let us know what your ideas and concerns and help us become the best foundation that we can possibly be not just now but for the future and for the future of our society.

Thank you.

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

FISCAL YEAR 2019

Major Competitive Grant Awardees

Career Award at the Scientific Interface

Steven Mark Banik, PhD
Stanford University

Jennifer Ann Noelani Brophy, PhD
Stanford University

Fei Chen, PhD
Massachusetts Institute of Technology

Víctor García-López, PhD
Rice University

Livnat Jerby, PhD
Massachusetts Institute of Technology

Christina K. Kim, PhD
Stanford University

Joseph William Larkin, PhD
University of California-San Diego

Jeffrey E. Markowitz, PhD
Harvard Medical School

Sergey D. Stavisky, PhD
Stanford University

Jeffrey Robert Tithof, PhD
University of Rochester

Mark Wagner, PhD
Stanford University

Career Awards for Medical Scientists

Jonathan R Brestoff, MD, PhD
Washington University

Gaurav Das Gaiha, DPhil, MD
Harvard Medical School

Karuna Ganesh, MD, PhD
Memorial Sloan-Kettering Cancer Center

Wei Gu, MD, PhD
University of California-San Francisco

Marie A Guerraty, MD, PhD
University of Pennsylvania

Rodney Infante, MD, PhD
University of Texas Southwestern Medical Center-Dallas

Michael George Kattah, MD, PhD
University of California-San Francisco

Corey Keller, MD, PhD
Stanford University

Robert M Samstein, MD, PhD
Memorial Sloan-Kettering

Ashley Steed, MD, PhD
Washington University

Santosh A. Vardhana, MD, PhD
Memorial Sloan-Kettering Cancer Center

Andrew Sean Venteicher, MD, PhD
University of Pittsburgh

Doris Du Wang, MD, PhD
University of California-San Francisco

Career Guidance for Trainees

American Society for Pharmacology and Experimental Therapeutics

Boston University

Clemson University

Iowa State University

Ohio State University

Western University

Vanderbilt University

Investigators in the Pathogenesis of Infectious Disease

Theresa Alenghat, DVM., PhD
University of Cincinnati

Francis Alonzo, PhD
Loyola University-Chicago

Isaac M. Chiu, PhD
Harvard Medical School

Jun R. Huh, PhD
Harvard Medical School

Ivaylo Ivanov, PhD
Columbia University

Leigh Knodler, PhD
Washington State University

Kristin N. Parent, PhD
Michigan State University

John W. Schoggins, PhD
University of Texas Southwestern Medical Center-Dallas

Kimberley D. Seed, PhD
University of California-Berkeley

Randy Stockbridge, PhD
University of Michigan-Ann Arbor

Ellen Yeh, MD, PhD
Stanford University

Postdoctoral Enrichment Program

Osama M Ahmed, PhD
Princeton University

Cierra A Birch, PhD
University of California-San Diego

Korey Brownstein, PhD
University of Chicago

Alex J Guseman, PhD
University of Pittsburgh

Nadia Herrera, PhD
University of California-San Francisco

Barbara Juarez, PhD
University of Washington

Andrew Kekupa'a Knutson, PhD
University of Hawaii

Laramie Denise Lemon, PhD
Emory University

David Rafael Martinez, PhD
University of North Carolina-Chapel Hill

Michaelle Ntala Mayalu, PhD
California Institute of Technology

Aaron Lavel Moye, PhD
Harvard University

Diane LaVern-Lygette Nelson, PhD
Carnegie Mellon University

Nancy Padilla Coreano, PhD
Massachusetts Institute of Technology

Brittany Louise Taylor, PhD
University of Pennsylvania

Physician Scientist Institutional Award

Texas A&M University

University of California-Los Angeles

University of Chicago

Washington University

Weill Cornell Medicine Physician-Scientist Academia

Student STEM Enrichment Program

Aurora Fossil Museum

Communities In Schools of Cape Fear

Duke University

McClintock Partners In Education (McPIE)

North Carolina State University

UNC Institute for the Environment

Wake County Public School System

Western Carolina University

The Burroughs Wellcome Fund is an independent private foundation dedicated to advancing the biomedical sciences by supporting research and other scientific and educational activities. Within this broad mission, BWF seeks to accomplish two primary goals—to help scientists early in their careers develop as independent investigators and to advance fields in the basic biomedical sciences that are undervalued or in need of particular encouragement.

BWF's financial support is channeled primarily through competitive peer-reviewed award programs to degree-granting institutions in the U.S. and Canada on behalf of individual researchers. To complement these competitive award programs, BWF also makes

grants to nonprofit organizations conducting activities intended to improve the general environment for science.

BWF believes that a diverse scientific workforce is essential to the process and advancement of research innovation, academic discovery, and public service.

Governed by a Board of Directors composed of distinguished scientists and business leaders, BWF was founded in 1955 as the corporate foundation of the pharmaceutical firm Burroughs Wellcome Co. In 1993, a generous gift from the Wellcome Trust, enabled BWF to become fully independent from the company, which was acquired by Glaxo in 1995.

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Vice President, Finance

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Senior Communications
Officer

Facilities and Administration

Brent Epps
Facilities Administrative
Assistant

Glenda H. Gilbert
Senior Manager, Facilities
and Administration

Betsy Stewart
Administrative Assistant

Finance

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Accounting Manager

Jennifer Caraballo
Accountant

Information Technology

Sammy Caraballo
Systems and Web Engineer

Wendell Jones
Technology Coordinator

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Administrative Meeting
Assistant

Lori Hedrick
Meeting Professional

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Alfred Mays
Program Officer

Victoria McGovern, PhD
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Kelly Rose, PhD
Program Officer

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Muno Sekhon
Program Associate

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Program Associate

Kendra Tucker
Senior Programs Assistant
and Data Specialist

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