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 ongoing challenge of increasing the number of physician-scientists and will help facilitate the transition to a career in research.

Resident Faculty Scholar Program: Provides up to $125,000 in support to faculty level academic scientists at U.S. or Canadian institutions to utilize BWF as a site for mini-sabbaticals/project incubation allowing dedicated time to initiate or accelerate their work as aligned with BWF priorities and goals.

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

Next Gen Pregnancy Initiative: Provides up to $500,000 over a four-year period to stimulate both creative individual scientists and multi-investigator teams to approach healthy and adverse pregnancy outcomes using creative basic and translation science methods.

For complete program information, including deadlines, please visit bwfund.org
President’s Message

The Burroughs Wellcome Fund community continues to weather the storm that the pandemic created. From the personal to the professional, we have all been challenged. Here in Research Triangle Park, we are determined and dedicated to move forward and ensure that our mission to serve society continues unabated. We see potential silver linings to the grey clouds of the last two years.

Our staff, for the most part, has worked virtually during this time and we have used this time to enhance our infrastructure and upgrade many of our systems. We are increasing our global connectivity and engagement by enhancing our in-house virtual technology so that we may emerge from the pandemic as a greener foundation. I am extremely proud of the effective way the entire BWF community has come together to ensure efficient, seamless operations of our programs. I am inspired by the innovation that has not only overcome challenges but opened new doorways into the future.

We are fortunate the stock market has remained strong, and our endowment allows us to provide room for philanthropic experiments and to take “risks” in our portfolio. The pandemic has provided an opportunity to be creative in our grantmaking portfolio. We have expanded our Science + Arts funding as well as increased our Science Communication budget. As a result of increased funding capacity, we have been able to provide more awards and enhance our new focus area of Climate Change and Human Health.

Additionally, we have helped support our network of awardees by providing flexible funding and no-cost extensions.

During this past year we have undertaken a vigorous and exciting strategic planning effort that continues into the early part of 2022. We will communicate more about this later in 2022 as plans begin to solidify.

A few highlights:

**Diversity in Science**
Ensuring that we are receiving applications and distributing grants to a broad and diverse audience is critical to the mission of the Fund. We have expanded funding in several grant programs and are continually seeking strategies that consider diversity, equity and inclusion through every mechanism within the Fund.

**Climate Change and Human Health**
Since 2020, we have partnered with the National Academies of Medicine to help fully develop and realize BWF’s role in funding climate change and human health. We have funded pilot grants through the academies and have established an ongoing series of ad hoc grants dedicated to fostering new partnerships among those working in this area.

**Science Communication and Arts**
We have expanded our outreach in Science Communication and Science + Arts. We have contributed funding towards films, theater, an artist-in-residence program, and several...

“AS WE ENTER 2022... WE HAVE LEARNED TO BE FLEXIBLE, RESILIENT, AND MORE APPRECIATIVE OF THE BENEFITS OF A HOLISTICALLY HUMANISTIC WORKSPACE. WE WILL LEVERAGE THIS NEW FOUNDATION FOR CREATIVE ENGAGEMENT AMONG SCIENTISTS, EDUCATORS, ARTISTS, JOURNALISTS, AND THE PUBLIC TO SOLVE THE SOCIETAL CHALLENGES OF TODAY AND TOMORROW.”
BWF awarded more than $36 million in grants during fiscal year 2021

For audited financial statements and evaluations of our grant programs, visit bwfund.org/annualreport

**Biomedical Sciences**
- 23.8%
- ($9.03 million)

**Infectious Diseases**
- 19.5%
- ($7.40 million)

**Science Education**
- 15.5%
- ($4.35 million)

**Science & Philanthropy**
- 11.6%
- ($0.76 million)

**Interases in Science**
- 15.5%
- ($5.90 million)

**Reproductive Science**
- 10.5%
- ($4 million)

**Diversity in Science**
- 6.3%
- ($2.38 million)

**Regulatory Science**
- 11.1%
- ($4.16 million)

Power of Partnerships
We have partnered with The Doris Duke Charitable Foundation and others to support physician-scientists across the United States. During the past year we have established several partnerships with other foundations to reach our goals more effectively. Our involvement with the Science Philanthropy Alliance and the Health Research Alliance have enabled conversations among many science philanthropies and to encourage collaboration and best practices in the field.

As we enter 2022, may we be guided and encouraged by new normal – expanding reach, inclusiveness, and partnerships for engagement, research success and lifelong learning. We have learned to be flexible, resilient, and more appreciative of the benefits of a holistically humanistic workspace. We will leverage this new foundation for creative engagement among scientists, educators, artists, journalists, and the public to solve the societal challenges of today and tomorrow.

Thank you.

Louis J. Muglia, MD, PhD
President and CEO
Burroughs Wellcome Fund
FISCAL YEAR 2021

Major Competitive Grant Awardees

Career Award at the Scientific Interface
Kevin Dalton, PhD
Harvard University
Rebecca Donegan, PhD
Georgia Institute of Technology
Anne Draelos, PhD
Duke University
Rogelio Hernandez-Lopez, PhD
University of California-San Francisco
Antentor Hinton, PhD
University of Iowa Carver College of Medicine
Christina Hueschen, PhD
Stanford University
Vira Kravets, PhD
University of Colorado-Denver
Ruth Marisol Herrera Perez, PhD
Columbia University
Rebecca Sherbo, PhD
Harvard University
Charlotte Strandkvist, PhD
Harvard Medical School
Longzhi Tan, PhD
Stanford University

Career Awards for Medical Scientists
Serine Avagyan, MD, PhD
Dana-Farber | Boston Children’s Hospital Cancer and Blood Disorders Center
David Benjamin Beck, MD, PhD
National Institutes of Health (NIH)*
Silvia Bernardi, MD
Columbia University
Jeeyeon Monica Cha, MD, PhD
Vanderbilt University
Raghu Ram Chivukula, MD, PhD
Massachusetts Institute of Technology
Carlos Antonio Diaz-Balzac, MD, PhD
University of Rochester
Neir Eshel, MD, PhD
Stanford University
Russell Paul Goodman, MD, DPhil
Massachusetts General Hospital
Brian Christopher Miller, MD, PhD
Dana-Farber Cancer Institute
Rachel Niec, MD, PhD
Rockefeller University
Celestine N. Wanjalla, MD, PhD
Vanderbilt University
Kevin Wei, MD, PhD
Brigham and Women’s Hospital

Career Guidance for Trainees
American Society for Cell Biology
Raghu Ram Chivukula
Duke University
Sena Institute of Technology Foundation
University of Nevada-Reno
University of North Carolina-Chapel Hill School of Pharmacy
University of Pittsburgh
University of Tennessee Health Science Center
Yale University School of Medicine

Graduate Diversity Enrichment Program
Ashley Michelle Aguillard
University of North Carolina-Chapel Hill
David Aponte Diaz
University of North Carolina-Chapel Hill
Danielle Marie Brathwaite
University of North Carolina-Chapel Hill
Danielle Leigh Chappell
University of North Carolina-Chapel Hill
Jeliyah Shaquan Clark
University of North Carolina-Chapel Hill
Marta Cristina Cruz Cisneros
University of North Carolina-Chapel Hill
Austin Ogechukwu Maduka
Duke University
Carmen A Marable
University of North Carolina-Chapel Hill
Jamshaid Shahir
University of North Carolina-Chapel Hill
Ellysa Vogt
University of North Carolina-Chapel Hill

Innovation in Regulatory Science Award
Amrita Basu, PhD
University of California-San Francisco
John F P Bridges, PhD
Ohio State University College of Medicine and Public Health
Abraham Joy, PhD
University of Akron
Laine Thomas, PhD
Duke University
Carole Yauk, PhD
University of Ottawa
Meredith Zozus, PhD
University of Texas Health Science Center-San Antonio

Investigators in the Pathogenesis of Infectious Disease
Matthew D. Daugherty, PhD
University of California-San Diego
Lawrence A. David, PhD
Duke University
Elizabeth S. Egan, MD, PhD
Stanford University School of Medicine
Gianna E. Hammer, PhD
Duke University
Timothy W. Hand, PhD
University of Pittsburgh
Nicholas S. Heaton, PhD
Duke University School of Medicine
Helen M. Lazear, PhD
University of North Carolina-Chapel Hill
Sebastian Lourido, PhD
Massachusetts Institute of Technology
Laura-Isobel McCall, PhD
University of Oklahoma
Jacobo von Moltke, PhD
University of Washington School of Medicine
John Whitney, PhD
McMaster University

Next Gen Pregnancy Initiative
Vikki M Abrahams, PhD
Yale University
William Lee Kraus, PhD
University of Texas Southwestern Medical Center-Dallas

*Funding will be received by faculty institute TBD
The Burroughs Wellcome Fund serves and strengthens society by nurturing a diverse group of leaders in biomedical sciences to improve human health through education and powering discovery in frontiers of greatest need.

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.