

### Table of contents:

Alzheimer's Disease Research

Macular Degeneration Research

National Glaucoma Research

2016 Grant Recipients

Scientific Review Committees 13

Partnerships For A Cure

Investing In A Cure 16

Financial Highlights 18

Board & Leadership 19

### Dear Friends,

At BrightFocus Foundation we continue to expand our support for bold, innovative science around the world through our three research programs: Alzheimer's Disease Research, Macular Degeneration Research, and National Glaucoma **Research**. In 2016 we awarded \$11.7 million in new research grants, a record amount toward our mission of ending Alzheimer's disease, macular degeneration, and glaucoma.

Our researchers are at the forefront of scientific discovery, pushing new frontiers of knowledge in their labs and sparking creativity and innovation through prominent roles and awards at major scientific conferences and journals.

At the same time, we continue to reach larger audiences both families impacted by these diseases who use our expanded digital and print resources, as well as policy and thought leaders across the public and private sectors.

We are driven by a fierce sense of urgency to find cures for age-related diseases—for the first time in history the world will soon have more people over age 65 than under age 5. It is imperative that we change the trajectory of these diseases. This is why our world-class Scientific Review Committees are so dedicated and demanding in identifying the most promising science.

We were recently honored to host our inaugural An Evening of BrightFocus, a Washington, DC event bringing together scientific, policy, diplomatic, and business leaders to celebrate our commitment to science and public awareness.

Thank you to the many scientists and donors who make our work possible. Together, along with all of us at BrightFocus, we are united in an unwavering belief that, through the power of scientific research, there will be a day when women and men everywhere will live full and vibrant lives free from diseases of mind and sight.

STACY PAGOS HALLER

President and CEO

SCOTT D. RODGVILLE, CPA

Chair, Board of Directors



BrightFocus Foundation's three scientific research programs to end diseases of mind and sight:

- Alzheimer's Disease Research
- Macular Degeneration Research
- National Glaucoma Research



### Alzheimer's Disease Research



# **Innovative and Engaging** Research For The Cure.

Alzheimer's disease today affects more than five million Americans. Every 66 seconds, another American develops the disease, making it the sixth leading cause of death in the United States, and the only leading cause of death that has significantly increased in recent years. Alzheimer's has no known cause or cure.

This year, our Alzheimer's Disease Research program awarded more than \$6.8 million to 32 new science projects. Since inception, the program has awarded more than \$100 million. This research is leading us to a greater understanding of the disease and is moving us closer to a cure.

WE AWARDED MORE THAN \$6.8 MILLION TO 32 NEW **SCIENCE PROJECTS** 

A BrightFocus-funded research project is working to better study the effects of Alzheimer's on the brain. We are helping launch EyesOnALZ, a new online tool for



citizen scientists across the globe to help us map the brain.

By engaging the public, we can advance our knowledge base much more quickly while also providing greater awareness of the disease.

#### **A Growing Epidemic**

ALZHEIMER'S DISEASE IN THE UNITED STATES





# Working Toward a Dementia Friendly **America**

BrightFocus recently joined a broad coalition of nonprofit and business leaders to launch Dementia Friendly America (DFA), a national movement creating communities that better recognize and serve Americans with dementia.

Announced at the White House Conference on Aging, DFA unites leaders from government, business, health care, and community groups to develop and implement a coordinated, compassionate approach to improving the quality of life for those affected by dementia.

Through the leadership and support of BrightFocus, Montgomery County, MD, home of our headquarters, was one of the earliest localities to join the DFA movement. Now more than 100 communities, ranging from cities to entire states, have begun to implement the DFA model.



www.dfamerica.org

#### **Researcher Spotlight**

# A Grandfather Plants the Seeds of Research

For Daniel Lee, PhD, University of South Florida, the personal is professional. His distinguished career in neuroscience—a founding faculty member of the USF College of Pharmacy and Pharmaceutical Sciences who has won numerous research awards—began with the story of his grandfather.

As a young man, Lee could not understand "why my grandfather, who was a welleducated medical doctor, contracted Alzheimer's disease." During Lee's college years, his grandfather was also diagnosed with Parkinson's. Lee decided to pursue a doctorate in neuropharmacology, which studies the effects of drugs on the nervous system.

With the funding he received from Alzheimer's Disease Research, Lee is looking at molecules known as polyamines that appear to influence the presence of tau—a protein that accumulates in the brain in Alzheimer's. He hopes to help identify strategies for ending toxic tau build-up.

Lee's grandfather "planted the seed of health care in our family," recalls Lee, one of six other family members who went into the health field. "There is an innate drive to find cures for these devastating diseases."

Daniel Lee, PhD University of South Florida

> DR. LEE HOPES TO HELP **IDENTIFY STRATEGIES FOR ENDING TOXIC TAU BUILD-UP**

Macular Degeneration Research



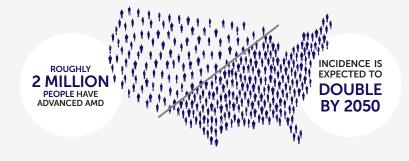
# Using the Power of Science to Stop Vision Loss. • WE A RESE MORI

Age-related macular degeneration (AMD) is the leading cause of irreversible vision loss in the United States, and for Caucasians older than 40, it is the leading cause of legal blindness. An estimated 11 million Americans have AMD, including the early and later stages of the wet and dry types of the disease.

This year Macular Degeneration Research awarded 20 new research grants totaling more than \$3 million. Since its inception, the program has awarded more than \$21 million supporting research into the causes and potential treatments of this widespread disease.

BrightFocus shares scientific news from researchers worldwide through multiple channels including our open-access, online journal,  WE AWARDED 20 NEW
 RESEARCH GRANTS TOTALING MORE THAN \$3 MILLION

Molecular Neurodegeneration. At the annual conference of the Association for Research in Vision and Ophthalmology, BrightFocus pays tribute to our outstanding vision disease researchers, and we are pleased to support the Helen Keller Prize for Vision Research.



# Monthly Tips for Families and Caregivers

We offer a monthly telephone call-in series, BrightFocus Chats, featuring researchers, clinicians, patients, and low-vision specialists who provide the latest tips and advice for those living with vision loss. The Chats, which foster an ongoing dialogue to address the questions and concerns of callers, are archived and available on our website.

A longtime Chat participant, Sally from Union, New Jersey, says, "I am a regular listener to all of these BrightFocus Chats. I have AMD and I find this to be a wonderful, wonderful, informative resource."

# BrightFocus® Chats

#### **Researcher Spotlight**

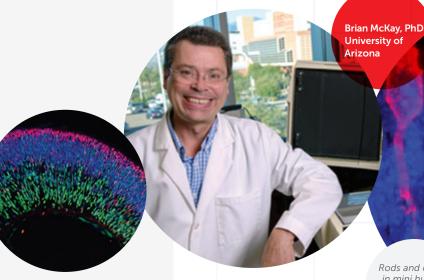
# The Benefits of Big Data: Bringing Us Closer to a Cure

Brian McKay, PhD, University of Arizona, was senior author of a study that made news in 2015 when it found that L-DOPA, a drug used to treat Parkinson's disease, may help protect against age-related macular degeneration (AMD).

The groundbreaking report, funded in part by Macular Degeneration Research and published in the American Journal of Medicine, looked at massive amounts of medical data for 87 million patients. McKay's team discovered that patients receiving L-DOPA were significantly less likely to get AMD, and when they did, its onset was delayed.

In addition to this breakthrough, McKay is investigating in his BrightFocus grant how eye health is affected by L-DOPA signaling through a receptor near the retina. Understanding this process may help uncover how AMD begins—and how it might be stopped.

Clinical trials are needed to test his team's L-DOPA findings. As McKay told U.S. News and World Report, "I think in the end we are going to be able to prevent AMD, but we have more work to do."



2016 Annual Report **7** www.brightfocus.org

Rods and cones in mini human retinas, from the lab of Dr Canto-Soler



# **Protecting Sight from Glaucoma.**

Glaucoma is a group of eye diseases that damage the optic nerve and, without treatment, can result in vision loss and blindness. According to the World Health Organization, glaucoma is the second leading cause of irreversible blindness worldwide.

For Hispanics and African-Americans in the United States, glaucoma is the leading cause of blindness. Permanent vision loss can occur without any symptoms. BrightFocus is educating Americans across multiple platforms on the importance of scheduling a

WE AWARDED 13 NEW **RESEARCH GRANTS TOTALING MORE THAN \$1.8 MILLION** 

regular eye exam. From a social media "Thunderclap" campaign to TV and billboard public service announcements across the country, we are working to protect sight.

This year, National Glaucoma Research awarded 13 new research grants totaling more than \$1.8 million. The program has awarded more than \$28 million since inception.

#### **Save Your Sight From Glaucoma**

GLAUCOMA IN THE UNITED STATES glaucoma ARE LIKELY AWARE **HALF OF PEOPLE** LIVING WITH



**Your Sight** Campaign

"Permanent vision loss can occur without any symptoms. Schedule an eye exam."

#worldsightday

SUPPORTERS 100+

AUDIENCE REACHED 350,000+

# **Expanding Our** Digital Footprint

To better share the latest scientific news and better provide access to our extensive library of public education materials, BrightFocus recently launched a new, more user-friendly website. At BrightFocus.org, all of our materials can be viewed with

increased font size, downloaded free of charge or ordered in hard copy. We also provide helpful information via video and podcast, and are active on many social media channels including Facebook and Twitter.



# Resources for Caregivers



BrightFocus recently released a new publication to support families and caregivers of those affected by glaucoma.

E-mail info@brightfocus.org to receive a free copy of the Glaucoma: Treatment Options brochure.

#### **Researcher Spotlight**

# Mapping How an Enzyme Can Go Missing

Thanks to National Glaucoma Research, Raquel Lieberman, PhD, of Georgia Tech, and her team, have been able to provide a threedimensional view of a protein linked to inherited forms of glaucoma.

Genetic mutations cause the protein, myocilin, to clog the eye's drainage system, causing increased eye pressure and impaired vision. With the 3-D depiction, Lieberman's team hopes to map the myocilin molecule, to help develop drugs that prevent its disease-causing variations.

Lieberman is inspired by a close friend, who suffers from a disorder known as Gaucher Disease, and is alive today because of enzyme replacement therapy. As a child, the friend was in the original clinical trial of a man-made form of an enzyme missing in Gaucher. She still takes the medication.

"It's her courage, and the commitment of her family to move from South Africa to Maryland in the hopes of a cure for their child, that motivates me every day in my work to combat human disease," said Lieberman.



# **2016 BrightFocus Grant Recipients**

Most grant awards last for two to three years. These 65 new grants collectively will contribute to a nearly \$30 million research portfolio of 150 awards.

# Alzheimer's Disease Research

#### **Iman Aganj, PhD**

New Methods to Account for **Indirect Brain Connections** and Improve the Accuracy of the Imaging Biomarkers for Alzheimer's Disease

MASSACHUSETTS GENERAL HOSPITAL

#### Rachel Bennett, BS, PhD

Blood Vessel Changes in Tauopathy MASSACHUSETTS GENERAL HOSPITAL

This grant is made possible in part by a bequest from the Trust of Ida R. Kreingold.

#### Jason Brandt, PhD

Feasibility and Efficacy of a High Fat, Low Carbohydrate Diet for MCI and Early Alzheimer's Disease

#### JOHNS HOPKINS UNIVERSITY

This grant is made possible in part by support from the Jerome Jacobson Foundation.

#### Jennifer Gatchel, MD, PhD

Depressive Symptoms, Alzheimer's Disease (AD) Proteins Aß and Tau, and Neuronal Network Activity in Prodromal and Early AD

#### MCLEAN HOSPITAL

This grant is made possible by a beguest from the Howlett Revocable Trust.

#### Swetha Gowrishankar, PhD

Role of Axonal Lysosome Transport in Alzheimer's Disease Pathology YALE UNIVERSITY

### Jean-Viannev Haure-Mirande,

Role of Microglia in Alzheimer's Disease: Deleterious or Helpful? ICAHN SCHOOL OF MEDICINE AT MOUNT SINAL

This grant is made possible by support from the J.T. Tai Foundation.

#### Mark Henkemever, PhD

Identification of Novel Compounds to Promote Synapse Health and Prevent Alzheimer's Disease

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

#### Joachim Herz, MD

Targeting the Molecular Cause of the ApoE4-risk in Alzheimer's Disease

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

#### Tsuneya Ikezu, MD, PhD

Validation of Drug Candidates for Enhancing the Phagocytic Clearance in the Alzheimer's Brain **BOSTON UNIVERSITY** 

#### David Irwin, MD, MS

Non-Amnestic Alzheimer's Disease Biology

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

#### **Xiong Jiang, PhD**

A Novel Non-Invasive MRI-Based Biomarker of Early Stages of Alzheimer's Disease

GEORGETOWN UNIVERSITY

#### Catherine Kaczorowski, PhD

A New Method to Identify Genes Critically Involved in Alzheimer's Disease

THE UNIVERSITY OF TENNESSEE HEALTH SCIENCE CENTER

#### Patrick Kehoe, BSc, PhD

Helping the Brain to Fight Back Against Alzheimer's Disease-Using Old Drugs for **New Purposes** 

#### UNIVERSITY OF BRISTOL (UK)

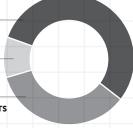
This grant is made possible in part by a bequest from the Trust of Edward & Irene Schlosser.



55% BASIC RESEARCH GRANTS

CLINICAL RESEARCH GRANTS

35% TRANSLATIONAL RESEARCH GRANTS



#### Doo Yeon Kim, PhD

A Human Cellular Alzheimer's Disease Model Based on 3D Culture Technology

MASSACHUSETTS GENERAL HOSPITAL

#### Chia-Chen Liu, PhD

The Virginia Faber Memorial Award for Alzheimer's Disease Research

The Effects of APOF Isoforms on Brain Functions and Alzheimer's Disease MAYO CLINIC JACKSONVILLE

#### Selene Lomoio, PhD

Reorganizing the Neuronal Highway in the Alzheimer's Brain TUFTS UNIVERSITY SCHOOL OF MEDICINE

#### **Brendan Lucey, MD**

Sleep Quality and Decreasing Aß Levels in the Human Brain WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

#### **Constantine Lyketsos, MD**

Accelerating the Development, Testing, and Dissemination of Home-Based Dementia Care Interventions JOHNS HOPKINS UNIVERSITY

#### Wenjie Luo, PhD

Cellular Mechanisms Underlying Microglia-Mediated Amyloid Degradation

WEILL CORNELL MEDICAL COLLEGE

#### Zixu Mao, PhD

Understanding Brain Inflammation in Alzheimer's Disease **EMORY UNIVERSITY** 

#### Stephen Martin, PhD

A New Approach to Treating Alzheimer's Disease

#### THE UNIVERSITY OF TEXAS AT AUSTIN

This grant is made possible in part by a bequest from the Trust of Francis C. Dykeman and in honor of Marie E. Dykeman.

#### Pietro Michelucci, PhD

Crowd-powered Microvascular Modeling

**HUMAN COMPUTATION INSTITUTE** 

#### Ana Pereira, MD

Enhancing Glutamate Levels as a Way to Treat Alzheimer's Disease

#### THE ROCKEFELLER UNIVERSITY

This grant is made possible in part by support from the Ping Y. Tai Foundation.

#### Dianne Perez, PhD

Novel Drugs against a New Receptor Target to Treat Alzheimer's Disease

THE CLEVELAND CLINIC FOUNDATION

#### **Emilie Reas, PhD**

Novel Biomarkers of Brain Microstructure in Aging and Mild Cognitive Impairment UNIVERSITY OF CALIFORNIA, SAN DIEGO

#### Jiri Safar, MD

Profiling Prion-Like Strains of Aß that Control Alzheimer's Progression

CASE WESTERN RESERVE UNIVERSITY

#### Stephen Salton, MD, PhD

Role of VGF in Alzheimer's Disease Pathogenesis and Progression

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

#### Paul Seidler, PhD

Blocking Assembly of Tau Protein into Toxic Structures Associated with Alzheimer's

UNIVERSITY OF CALIFORNIA. LOS ANGELES

#### Qiaoqiao Shi, PhD

New Mouse Models to Study the Role of Complement in Brain Aging and Neurodegeneration BRIGHAM AND WOMEN'S HOSPITAL

This grant is made possible in part by a bequest from the Estate of Frederick J. Pelda.

#### Tara Tracy, PhD

Investigating the Impact of KIBRA Protein Loss on Synapse **Function and Memory** 

THE J. DAVID GLADSTONE INSTITUTES

#### Laura Wisse, PhD

Separating Early AD and Aging Effects in Search of Markers to Track Alzheimer's Treatment Effects

#### UNIVERSITY OF PENNSYLVANIA

This grant is made possible in part by a beguest from the Trust of Elenore Lundeen.

#### Huda Zoghbi, MD

A Genetic Screen to Identify New Drug Targets for Alzheimer BAYLOR COLLEGE OF MEDICINE

# **National** Glaucoma Research

#### Audrev Bernstein, PhD

Use of Patient-Derived Cells to Test Compounds that Will Reverse Exfoliation Glaucoma ICAHN MOUNT SINAI SCHOOL OF MEDICINE

#### **Kevin Chan, PhD**

Early Brain Changes and Visual and Motor Functions in Glaucoma UNIVERSITY OF PITTSBURGH

#### J. Crawford Downs, PhD

A Wireless System to Measure and Control Fluid Pressure Around the Optic Nerve UNIVERSITY OF ALABAMA AT BIRMINGHAM

#### **Rudolf Fuchshofer, PhD**

Identifying Underlying Pressure-Control Mechanisms in Glaucoma UNIVERSITY OF REGENSBURG (GERMANY)

#### Haiyan Gong, MD, PhD

Mechanism of Decreased Giant Vacuole and Pore Formation in Glaucoma Using a Novel Method BOSTON UNIVERSITY SCHOOL OF MEDICINE

#### **Meredith Gregory-Ksander, PhD**

The Thomas R. Lee Award for Glaucoma Research

A New Method to Inhibit Inflammation and Prevent Glaucoma

SCHEPENS EYE RESEARCH INSTITUTE, MASSACHUSETTS EYE AND EAR

#### Shahid Husain, PhD

Low Oxygen Mediated Proteins Play Pathological Role in Glaucoma MEDICAL UNIVERSITY OF SOUTH CAROLINA

#### Raquel Lieberman, PhD

Function and Dysfunction of Myocilin in Glaucoma: New Insight from Proteomics GEORGIA INSTITUTE OF TECHNOLOGY

#### Yutao Liu, MD, PhD

Identifying New Drug Targets to Lower Eye Pressure Via Outflow AUGUSTA UNIVERSITY RESEARCH INSTITUTE, INC.

#### Gillian McLellan, PhD

A New Treatment to Protect the Optic Nerve in Glaucoma UNIVERSITY OF WISCONSIN

#### Xiugian Mu, MD, PhD

Generating Retinal Ganglion Cells in a Dish to Study and Treat Glaucoma SUNY, BUFFALO

#### Yvonne Ou, MD

The Douglas H. Johnson Award for Glaucoma Research

Understanding the Earliest Steps of Optic Nerve Cell Death in Glaucoma

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

#### **Daniel Sun, PhD**

Astrocyte Reactivity in the Glaucomatous Optic Nerve Head: Beneficial or Harmful for Vision? SCHEPENS EYE RESEARCH INSTITUTE, MASSACHUSETTS EYE AND EAR

# **2016 BrightFocus Grant Recipients** (continued)



#### Paul Baird, PhD

Identifying Gene Pathways in Late-Stage AMD

CENTRE FOR EYE RESEARCH AUSTRALIA, THE UNIVERSITY OF MELBOURNE

#### Brian Ballios, MD, PhD

Biomaterial-Based Stem Cell Therapies for Blinding Eye Disease UNIVERSITY OF TORONTO (CANADA)

This grant is made possible in part by a bequest from the Trust of Edward Primet.

#### Petr Baranov, MD, PhD

A New Approach to Rescuing Photoreceptors from Death through Activation of Endogenous Neuroprotective Mechanisms SCHEPENS EYE RESEARCH INSTITUTE,

MASSACHUSETTS EYE AND EAR

#### Vera Bonilha, PhD

Atrophic Lesion Borders in AMD: What Can They Tell Us?

THE CLEVELAND CLINIC FOUNDATION

This grant is made possible in part by a bequest from the Trust of Edna Stuver-Webster.

#### Maria Valeria Canto-Soler, PhD

The Helen Juanita Reed Award for Macular Degeneration Research

A New Model of a Human Retina in a Dish to Study AMD JOHNS HOPKINS UNIVERSITY

#### **Kip Connor, PhD**

Lipid Regulators of AMD SCHEPENS EYE RESEARCH INSTITUTE, MASSACHUSETTS EYE AND EAR

This grant is made possible in part by a bequest from the Estate of Robert J. Mac.

#### Patrick Daugherty, PhD

Characterization of Circulating Antibodies Specific to AMD UNIVERSITY OF CALIFORNIA. SANTA BARBARA

#### Sarah Doyle, PhD

Investigating How Loss of an "Off Switch" for Inflammation Contributes to AMD

TRINITY COLLEGE DUBLIN (IRELAND)

#### Jianhai Du, PhD

A New Method to Decrease Cell Death by Supplementation with **NAD Metabolites** 

WEST VIRGINIA UNIVERSITY

This grant is made possible in part by support from the Ivan Bowen Family Foundation.

#### Malia Edwards, PhD

A Study of Why Retinal Support Cells, Called Glia, Exit the Retina in AMD

JOHNS HOPKINS UNIVERSITY

This grant was made possible in part by a bequest from the Robert H. McLaren Trust.

#### Kaustabh Ghosh, PhD

Understanding the Role of Increased Cell Stiffness in Cell Death Associated with AMD UNIVERSITY OF CALIFORNIA, RIVERSIDE

#### Francesco Giorgianni, PhD

Basic and Clinical Studies to Understand the Role of the CD5L/AIM Protein in AMD

THE UNIVERSITY OF TENNESSEE **HEALTH SCIENCE CENTER** 

This grant is made possible in part by a bequest from the Stuart Blydenburgh Trust.

#### Jeffrey Gross, PhD

Identification of Factors that Can Stimulate Regeneration of the RPE UNIVERSITY OF PITTSBURGH

Amyloid

plaques, from

the lab of

Dr. Gowrishankar

#### Robyn Guymer, MBBS, PhD

The Carolyn K. McGillvray Memorial Award for Macular Degeneration Research

Too Much Debris as a Cause of AMD CENTRE FOR EYE RESEARCH AUSTRALIA, THE UNIVERSITY OF MELBOURNE

#### **Zhihong Hu, PhD**

An Automated Method to Detect and Analyze Atrophic Lesions

DOHENY EYE INSTITUTE, UCLA

#### John Hulleman, PhD

A Single Genetic Manipulation for Treating ML/Dry AMD

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

This grant is made possible in part by a bequest from the Trust of Anne E. Greene.

#### Benjamin Kim, MD

Therapeutic Evaluation of Alpha Lipoic Acid for Geographic Atrophy UNIVERSITY OF PENNSYLVANIA

#### Marcelo Nociari, PhD

**Identification of Novel Treatments** for Macular Degeneration by Alleviating Endoplasmic Reticulum Stress

WEILL CORNELL MEDICAL COLLEGE

#### Debasish Sinha, PhD

Novel Therapeutic Targets for the Treatment of Early AMD JOHNS HOPKINS UNIVERSITY

#### Biju Thomas, PhD

Functional Benefits of Polarized iPS-RPE Monolayer Transplantation Assessed in a New Immunodeficient RPE Dysfunction Rat Disease Model

UNIVERSITY OF SOUTHERN **CALIFORNIA EYE INSTITUTE** 

This grant is made possible by a bequest from the Estate of Jane M. Simon.

# **BrightFocus Scientific Review Committees**

Our world-class scientific review committees recommend BrightFocus research grants on the basis of scientific merit with the goal of discovering a treatment or cure for Alzheimer's, macular degeneration, and glaucoma.



Alzheimer's Disease Research

#### Co-Chairs:

#### David R. Borchelt, PhD

University of Florida

#### **Edward Koo, MD**

University of California, San Diego

#### Committee **Members:**

#### M. Flint Beal, MD

The New York Hospital-Cornell Medical Center

#### **Guojun Bu, PhD**

Mayo Clinic, Jacksonville

#### George Carlson, PhD

McLaughin Research Institute

#### Mark D'Esposito, MD

University of California, Berkeley

#### Steven Estus, PhD

University of Kentucky

#### Matthew Frosch, MD, PhD

Massachusetts General Hospital

#### Douglas Galasko, MD

University of California, San Diego

#### Charles G. Glabe, PhD

University of California, Irvine

#### Alison M. Goate, DPhil

Icahn School of Medicine at Mount Sinai

#### Yukiko Goda, PhD

**RIKEN Brain Science Institute** (Japan)

#### Todd E. Golde, MD, PhD

University of Florida

#### John Hardy, PhD, FMedSci, FRS

University College London

#### Julie Harris, PhD

Allen Institute for Brain Science

#### David Holtzman, MD

Washington University School of Medicine

#### William Jagust, MD

University of California, Berkeley

#### John "Keoni" Kauwe, PhD

**Brigham Young University** 

#### Cynthia A. Lemere, PhD

Harvard Medical School, Brigham and Women's Hospital

#### Allan I. Levey, MD, PhD

**Emory University** 

#### Ronald K. Liem, PhD

Columbia University

#### Hendrik Luesch, PhD

University of Florida

#### John M. Olichney, MD

University of California, Davis

#### David P. Salmon, PhD

University of California, San Diego

#### Gerard Schellenberg, PhD

University of Pennsylvania School of Medicine

#### Jane Sullivan, PhD

University of Washington School of Medicine

#### Rudolph Tanzi, PhD

Massachusetts General Hospital

#### David B. Teplow, PhD

University of California, Los Angeles

#### **Gopal Thinakaran, PhD**

University of Chicago

#### Ronald B. Wetzel, PhD

University of Pittsburgh

#### **Tony Wyss-Coray, PhD**

Stanford University Medical School

#### Kristine Yaffe, MD

University of California, San Francisco

#### Rigiang Yan, PhD

Cleveland Clinic Foundation

#### Hui Zheng, PhD

Baylor College of Medicine



We have a rigorous peerreview process in which renowned scientific leaders identify the most promising research to support.

### **BrightFocus Scientific Review Committees** (continued)

National Glaucoma Research

#### **Chair:**

#### Joe G. Hollyfield, PhD

The Cleveland Clinic Foundation

#### **Interim Chair** for FY16:

#### Michael B. Gorin, MD, PhD

University of California, Los Angeles

#### **Committee Members:**

#### Bela Anand-Apte, PhD

The Cleveland Clinic Foundation

#### Robert E. Anderson, MD, PhD

University of Oklahoma **Health Sciences** 

#### John D. Ash, PhD

University of Florida

#### Alan Bird, MD

University College London

#### **Catherine Bowes-Rickman, PhD**

**Duke University** 

#### **Deborah Ferrington, PhD**

University of Minnesota

#### Steven Fliesler, PhD

SUNY, Buffalo

#### Claire Harris, PhD

Cardiff University (Wales)

#### Alfred S. Lewin, PhD

University of Florida

#### John Penn, PhD

Vanderbilt University School of Medicine

#### Nancy J. Philp, PhD

Thomas Jefferson University

#### Sylvia B. Smith, PhD

Augusta University

#### **Debra Thompson, PhD**

University of Michigan

#### Macular Degeneration Research

#### Chair:

#### John C. Morrison, MD

Oregon Health & Science University

#### **Committee Members:**

#### R. Rand Allingham, MD

**Duke University** 

#### Claude F. Burgoyne, MD

Devers Eye Institute

#### Abbot F. Clark, PhD

University of North Texas

#### Anne L. Coleman, MD, PhD

University of California, Los Angeles

#### Adriana DiPolo, PhD

University of Montreal (Canada)

#### C. Ross Ethier, PhD

Georgia Institute of Technology and Emory School of Medicine

#### Thomas F. Freddo, OD, PhD

University of Waterloo (Canada)

#### Jeffrey L. Goldberg, MD

Stanford University

#### **Richard Libby, PhD**

University of Rochester Medical Center

#### Nicholas Marsh-Armstrong, PhD

Johns Hopkins University

#### Stuart J. McKinnon, MD, PhD

**Duke University** 

#### Robert W. Nickells, PhD

The University of Wisconsin

#### Ian Sigal, PhD

University of Pittsburgh School of Medicine

#### Arthur J. Sit, MD

Mayo Clinic, Rochester

#### W. Daniel Stamer, PhD

**Duke University** 

#### James N. Ver Hoeve, PhD

University of Wisconsin

#### **Monica Vetter, PhD**

Indiana University

#### Mary Wirtz, PhD

Oregon Health & Science University

#### Darrell WuDunn, MD, PhD

Indiana University

# Partnerships For A Cure

BrightFocus works closely with nonprofits and corporations alike to advocate for those impacted by Alzheimer's disease, macular degeneration, and glaucoma. We collaborate with partners in advocacy coalitions, and interact with key policymakers and elected officials on behalf of greater allocation of federal resources and support for caregivers.













Genentech

A Member of the Roche Group

Goldman Sachs











NOTAL VISION<sup>TM</sup>

Your Sight is Our Vision



REGENERON science to medicine™











# Global Network for Alzheimer's

BrightFocus partners with four European countries to generate critical funding and create public awareness to advance research and educate millions around the globe about Alzheimer's disease.

#### **#** Belgium

Stichting Alzheimer Onderzoek

#### **★** France

Ligue Europeenne Contre La Maladie d'Alzheimer

#### **#** Germany

Alzheimer Forschung Initiative e.V.

#### **★** The Netherlands

Internationale Stichting Alzheimer Onderzoek



# Investing **In A Cure**

On behalf of current and future generations, who benefit from the research funded by Alzheimer's Disease Research, Macular Degeneration Research and National Glaucoma Research, BrightFocus Foundation thanks our generous donors for investing in a cure for current and future generations. We are fortunate to be supported by so many individuals, private foundations and corporations for our programs that advance research and promote public awareness.

We offer a wide range of contribution opportunities to accommodate resources and charitable goals. Each and every gift is important and needed to help find a cure and educate the community.



#### **Sowing the Seeds of Scientific Progress**

BrightFocus-funded researchers often go on to receive awards ten times greater from NIH and other sources, a 1,000% return on our early investment.

# **Donor Spotlight**

Many BrightFocus donors have special connections to the research programs they support. We are honored to share three of those stories with you.

# **Increasing Opportunities** for Clinical Trials: A Strategic Investment

Barry Friedberg, president and CEO of FriedbergMilstein, LLC, an independent investment management firm in New York City, has served in a range of leadership positions in the world of finance over the past 50 years, including leadership of the Global Banking Investment Business of Merrill Lynch in the 1980s and 1990s. He also has a wide range of philanthropic interests, from supporting educational and arts organizations to youth development.

Mr. Friedberg has personal reasons for donating to our National Glaucoma Research (NGR), a program of BrightFocus Foundation. His mother had glaucoma, and lost most of her eyesight from the disease. Now Friedberg has glaucoma. He takes a regimen of medications for his left eye, and had procedures that remove a tiny portion of the eye's meshwork to allow better drainage. He remains active,

continuing his love of skiing and golfing.

Through a generous donation to NGR, Friedberg will help support the Phase II clinical trial of ciliary neurotrophic factor—a molecule known to promote protection and regeneration of retinal ganglion cells in models of glaucoma.

Says Friedberg, "If I can make a difference in the advancement of glaucoma research and the speed of clinical trials to end this disease. I believe that is a sound investment."



# **Honoring Their Friend's Great-Grandfather: Young Dancers Give Hope**

Bonnie Walker, owner and artistic director of Next Step School of Dance in New Jersey, says she teaches young dancers on her Praise Team that, "we need to reach out to the causes that need our assistance."

Each month, the Praise Team brings their ideas to class and, through discussion and prayer, decides on an organization to receive the team donation. In spring 2016, Nicolette Zika, age 13, spoke about her greatgrandfather, Alberto Lazaro Sr., and how his death from Alzheimer's had affected her family.

She shared information about the Alzheimer's Disease Research program (ADR), which her mother, Dina Marie Zika, has donated to since 2007. In honor of Nicolette's great-grandfather, the young dancers selected ADR for their donation.

As Bonnie noted, "We have been able to let a family that has lost a loved one to this disease know how much we care about them."

The team's support for Alzheimer's research also represented hope. Wrote Nicolette and Dina, "We truly hope that someday we will find a cure, not only for individuals, but also for their families."

**Educating Others, Leaving a Legacy** 

Lynne Rubin, 94, of Queens, New York, began having vision problems in her left eye almost 30 years ago. Her doctor at the time diagnosed her with a virus. It was not until years later that an ophthalmologist officially diagnosed her with dry macular degeneration. Lynne learned all she could about the disease and shared that knowledge, speaking at libraries and hospitals. Her message: "See your ophthalmologist every year."

Lynne uses

magnifying lenses

and binoculars to

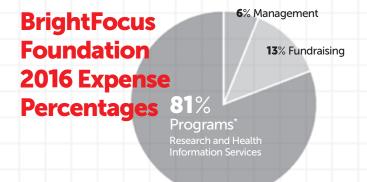
help her see.

She has been a loyal supporter of BrightFocus Foundation's Macular Degeneration Research (MDR) program. Lynne applauds the program's research efforts, and loves the informative publications, which she sends to her doctors and friends. She also participates in the monthly BrightFocus Chats that provide timely information on vision disease.

MDR "does an excellent job of supporting research and educating the public about macular degeneration," says Lynne. That's why she is leaving a gift to MDR in her estate plan, and is now a member of BrightFocus Foundation's Heritage Society.

# **Financial Highlights**

BrightFocus is a nonprofit organization designated under Section 501(c)(3) of the Internal Revenue Code. All contributions to BrightFocus and its programs are tax-deductible to the extent allowed by law. The foundation is supported entirely by voluntary private contributions.



\*BrightFocus received in-kind donations to expand public health information outreach and these are included in Program Services expenses. This allowed the organization to reach millions of people with information about risk factors, treatments, and caregiving.

A complete copy of the financial statement audited by Raffa, P.C., is available upon request from BrightFocus at 1-800-437-2423 or www.brightfocus.org.

### **Consolidated Statement of Financial Position**

As of March 31, 2016 (in thousands of dollars)

ASSETS	
Cash and Investments	\$37,818
Charitable Trusts and Bequests Receivable	5,569
Rental Property	3,928
Fixed Assets, Net	4,693
Other Assets	1,268
TOTAL ASSETS	\$53,276

LIABILITIES	
Accounts Payable and Other Liabilities	\$976
Grants Payable	20,173
Charitable Gift Annuities	1,267
TOTAL LIABILITIES	\$22,416

NET ASSETS	
Unrestricted	\$19,794
Temporarily Restricted	10,976
Permanently Restricted	90
TOTAL NET ASSETS	\$30,860
TOTAL LIABILITIES AND NET ASSETS	\$53,276

### **Consolidated Statement** of Activities

For the Fiscal Year Ended March 31, 2016 (in thousands of dollars)

SUPPORT & REVENUE	
Contributions and Grants	\$22,501
Bequests	6,720
Donated Services	13,318
Investment Loss	(1,151)
Rental & Other Income	886
TOTAL SUPPORT & REVENUE	\$42,274

EXPENSES	
PROGRAM SERVICES	
Research	\$15,069
Health Information Services	21,077
TOTAL PROGRAM EXPENSES	\$36,146
SUPPORTING SERVICES	
Fundraising	\$5,667
Management and General	2,766
TOTAL SUPPORTING SERVICES	\$8,433
TOTAL EXPENSES	\$44,579
CHANGE IN NET ASSETS	\$(2,305)

# Leadership

### **BrightFocus Board of Directors**



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### **Programs**

Alzheimer's Disease Research Macular Degeneration Research National Glaucoma Research

#### **Contact**

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Connect

www.brightfocus.org













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