

BRAIN & BEHAVIOR RESEARCH FOUNDATION

2021 ANNUAL REPORT

Awarding research grants to develop improved treatments, cures, and methods of prevention for mental illness.



BBRF is the world's largest private funder of mental health research grants, supporting transformative discoveries in order to develop improved treatments, cures, and methods of prevention for our loved ones.

Mission

The Brain & Behavior Research Foundation is committed to alleviating the suffering caused by mental illness by awarding grants that will lead to advances and breakthroughs in scientific research.

What We Support

BBRF funds research in the following areas:

- Addiction
- ADHD
- Anxiety
- Autism
- Bipolar Disorder
- Borderline Personality Disorder
- Depression
- Eating Disorders
- OCD
- PTSD
- Schizophrenia
- Suicide Prevention

“Together we can dramatically improve the lives of those living with mental illness and enable more people to live full, happy, and productive lives.”

Jeffrey Borenstein, M.D.
BBRF President & CEO

100% OF EVERY DOLLAR
DONATED FOR RESEARCH
GOES TO RESEARCH

Our operating expenses are covered by separate foundation grants.



Jeffrey Borenstein, M.D.
President & CEO



Herbert Pardes, M.D.
President, Scientific Council



Geoffrey Simon
Chair, Board of Directors

The Brain and Behavior Research Foundation (BBRF) is the largest private funder of mental health research grants. Since 1987, BBRF has awarded more than \$430 million in research grants to more than 6,000 scientists around the world who are searching for better treatments, cures, and methods of prevention for mental illness.

This support has led to discoveries that have improved our understanding of the brain and produced new treatments for psychiatric illness.

Impact of BBRF funded research:

- [The First Rapid-Acting Antidepressants](#)
- [Transcranial Magnetic Stimulation \(TMS\) for Treating Depression, OCD, and Potentially Other Conditions](#)
- [Computer-Guided Cognitive Remediation for Enhanced Recovery in Schizophrenia](#)
- [Potentially Lowering the Child’s Mental Illness Risk via Maternal Choline Supplements During Pregnancy](#)
- [Harnessing Stem Cell Technology to Study Autism, Schizophrenia](#)
- [Groundbreaking Technology — Optogenetics Now Used in Thousands of Research Labs Globally to Study the Brain and Psychiatric Illness](#)

We are proud to report that in 2021 BBRF funded more than \$16 million in new research grants across a broad spectrum of brain illnesses including: Addiction, ADHD, Anxiety, Autism, Bipolar Disorder, Borderline Personality Disorder, Depression, Eating Disorders, OCD, Psychosis, PTSD, Schizophrenia, as well as Suicide Prevention.

BBRF is a collaboration between generous donors and dedicated scientists. The research we fund together is transformative. One reason that research funded by BBRF has such great impact is because we do not limit our focus to one illness or condition. Another reason is because BBRF grant recipients are chosen by our world-renowned Scientific Council.

The BBRF Scientific Council is comprised of 181 scientists who rigorously evaluate every grant application, identifying the most promising, innovative science, with the greatest potential for significant breakthroughs. This past year the Council evaluated more than 750 grant proposals and awarded 150 Young Investigator grants, funding two-years of research for \$35,000 per year.

BBRF grants serve as a springboard for talented scientists to get new ideas off the ground, including basic science and clinical research. This crucial funding early in their careers often leads to additional funding from the National Institutes of Health (NIH) and other sources, both governmental and private.

This annual report features Leading Research Achievements by BBRF Grantees, Prizewinners & Scientific Council Members. Many of their significant BBRF-funded research findings were published in leading psychiatric and medical journals during 2021.

Among these major scientific achievements is timely research about the effects of COVID-19 on the brain and mental health. These advancements, as well as other important discoveries, are changing how we help people who live with mental illness.

This year BBRF awarded Outstanding Achievement Prizes in Mental Health to nine scientists for their extraordinary work in advancing psychiatric research. The Prizewinners were featured presenters at BBRF's 2021 International Mental Health Virtual Symposium. The 2021 BBRF International Mental Health Virtual Symposium is available to watch online at: www.bbrfoundation.org/event/international-mental-health-research-symposium

Our annual Pardes Humanitarian Prizewinners in Mental Health were Kay Redfield Jamison, Ph.D.; Elyn R. Saks, J.D., Ph.D.; and Charlene Sunkel. Three 2021 Pardes Honorary Prizes were given to John M. Davis, M.D., Michael R. Phillips, M.D., MPH, and Norman Sartorius, M.D., Ph.D., FRCPsych.

The Brain & Behavior Magazine continues to inform readers of the most important advancements in scientific research. This is supplemented by eNews, our weekly email newsletter that features the research of BBRF Grantees, Prizewinners, and Scientific Council Members. Through these and other efforts, we aim to share timely information with you what is happening in research labs, and about breakthroughs that are providing new knowledge and insights from bench to bedside.

BBRF is also breaking new ground in Public Media. We recently launched the 7th season of "Healthy Minds." This award-winning program aims to decrease stigma and prejudice by providing accurate information to the public about psychiatric conditions and treatments as well as cutting edge research advancements. "Healthy Minds" is available on PBS stations around the U.S. and online at PBS.org. Here's the link: <https://www.pbs.org/show/healthy-minds-with-dr-jeffrey-borenstein/>

While steady advancements in brain research are being made, more still needs to be done. 100% of every dollar donated for research is invested in our research grants. We can do this because our operating expenses are covered by separate foundation grants. This means that every dollar donated for research goes directly to the scientist.

We thank you for your ongoing and generous support and welcome those of you who will join us on the path toward research for recovery.

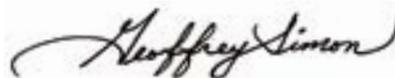
Sincerely,



Jeffrey Borenstein, M.D.
President and CEO



Herbert Pardes, M.D.
President, Scientific Council



Geoffrey Simon
Chair, Board of Directors

Our Scientific Council

- 181** Scientific Council Members (21 Emeritus)
- 51** Members of the National Academy of Medicine
- 41** Chairs of Psychiatry & Neuroscience Departments
- 16** National Institute of Health Chiefs & Directors
- 7** Members of the National Academy of Sciences
- 3** Recipients of the National Medal of Science
- 2** Directors of the National Institute of Mental Health
- 1** Nobel Prize Winner

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Rita J. Valentino, Ph.D.

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VanderWeele, M.D.

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Nora D. Volkow, M.D.

Karen Dineen Wagner, M.D., Ph.D.

Daniel R. Weinberger, M.D.

Myrna M. Weissman, Ph.D.

Marina E. Wolf, Ph.D.

Jared W. Young, Ph.D.

L. Trevor Young, M.D., Ph.D., F.R.C.P.C., F.C.A.H.S.

Carlos A. Zarate, Jr., M.D.

Jon-Kar Zubieta, M.D., Ph.D.

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Huda Akil, Ph.D.

BJ Casey, Ph.D.

Dennis S. Charney, M.D.

Bruce M. Cohen, M.D., Ph.D.

Fred H. Gage, Ph.D.

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Fritz A. Henn, M.D., Ph.D.

Steven E. Hyman, M.D.

Samuel J. Keith, M.D.

Kenneth K. Kidd, Ph.D.

Rachel G. Klein, Ph.D.

Steven M. Paul, M.D.

Steven G. Potkin, M.D.

Bernardo Sabatini, M.D., Ph.D.

Solomon H. Snyder, M.D.

John A. Talbott, M.D.

Ming T. Tsuang, M.D., Ph.D., D.Sc.

Jim van Os, M.D., Ph.D., MRCPsych

Mark von Zastrow, M.D., Ph.D.

Our New Scientific Council Members

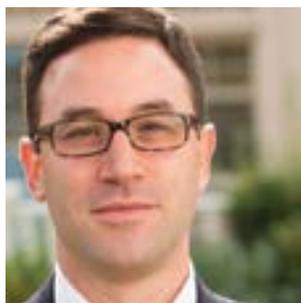
The Scientific Council guides the Foundation to fund creative and impactful research relevant to the whole spectrum of mental illness.

Led by Dr. Herbert Pardes, the founding President of our Scientific Council, the all-volunteer group of preeminent mental health researchers reviews hundreds of grant applications each year and select the most promising research ideas with the greatest potential to lead to breakthroughs.



"At its very core BBRF strives to find the dynamic path forward. Scientists who have received a BBRF grant have generated seminal ideas, launched discoveries that have changed the direction of research, and helped foster the development and testing of novel therapies offering new and better therapeutic options to patients. The Scientific Council is working hard to find and support those early-career scientists who are on the path to solving the most intricate and complicated of illnesses—mental illness."

- Herbert Pardes, M.D.



Randy P. Auerbach, Ph.D.

Associate Professor (Tenured) of Medical Psychology (in Psychiatry), Department of Psychiatry, *Columbia University*



Vadim Bolshakov, Ph.D.

Director, *Cellular Neurobiology Laboratory, McLean Hospital*
Professor, *Harvard Medical School*
2013 BBRF Distinguished Investigator
2006, 2004 BBRF Independent Investigator



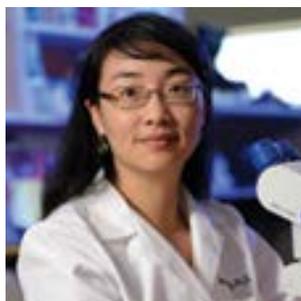
Kathleen T. Brady, M.D., Ph.D.

Distinguished University Professor
Director, South Carolina Clinical and Translational Research Institute, *Medical University of South Carolina*



Robert Desimone, Ph.D.

Director, McGovern Institute
Doris and Don Berkey Professor, Brain and Cognitive Sciences, *Massachusetts Institute of Technology*
2020 BBRF Goldman-Rakic Prizewinner for Cognitive Neuroscience Research



Guo-li Ming, M.D., Ph.D.

Perelman Professor of Neuroscience, *University of Pennsylvania*
2010 BBRF Independent Investigator



Susan B. Powell, Ph.D.

Professor of Psychiatry, *University of California, San Diego*
2004 BBRF Young Investigator



Scott J. Russo, Ph.D.

Director, Center for Affective Neuroscience, Dept. of Neuroscience, *Icahn School of Medicine at Mount Sinai*
2008, 2006, BBRF Young Investigator

BBRF Grants Are Making a Difference

Research supported by BBRF grants is playing a vital role on some of the most important fronts in the fight against mental illness

The First Rapid-Acting Antidepressants

In 2019, the FDA approved esketamine, the first-ever rapid-acting antidepressant for patients with treatment-resistant depression, and brexanolone, which can lift postpartum depression within 48 hours. 90 BBRF grants over 20 years helped build the foundation for these long-sought advances.

Non-Invasive Brain Stimulation to Treat Depression, OCD, PTSD

BBRF grants seeded research which led to FDA approval in 2008 of rTMS (repetitive transcranial magnetic stimulation) for treatment-resistant major depression. BBRF grantees are now testing more powerful and faster-acting brain-stimulation technologies with a wide range of potential applications.

Computer-Guided Cognitive Remediation for Enhanced Recovery in Schizophrenia

Recovery may be possible for more people with schizophrenia and other disorders in which cognitive function is impaired, including bipolar disorder and depression. Recently, BBRF-funded scientists clinically validated computer-guided methods of enhancing verbal and auditory learning capacity, processing speed, working memory, and recall ability in chronic schizophrenia patients.

Lowering the Child's Mental Illness Risk via Maternal Choline Supplements

BBRF grantees have pioneered choline supplementation in the diet of pregnant women to reduce the risk of mental illness in children. Today, the American Medical Association recommends including choline in prenatal vitamin supplements.

Harnessing Stem-Cell Technology to Study Autism, Schizophrenia

BBRF grantees have pioneered the use of stem-cell technologies to create functioning brain "organoids"—living test-beds that can be used to assess new drug candidates as well as reveal how genetic variations cause pathologies in the fetal brain as it develops. This research is especially pertinent in autism, schizophrenia and other disorders with developmental roots.

Computer-Guided Early Diagnosis of Mental Illness

BBRF-funded investigators are training machines that, in turn, train themselves—ultimately, to a level of precision not possible in humans—to recognize potentially diagnostic patterns of clinical data or biological markers in schizophrenia, first-episode psychosis, major depression, and bipolar disorder.

2021 Leading Research Achievements by Foundation Grantees, Prize Winners, & Scientific Council Members

DIAGNOSTIC TOOLS/EARLY INTERVENTION: ADHD

Low Maternal Vitamin D in Early Pregnancy Is Linked With ADHD Risk in the Child



Andre Sourander, M.D., Ph.D.

University of Turku, Finland

2008 BBRF Independent Investigator

Journal of the American Academy of Child & Adolescent Psychiatry, January 1, 2021

Researchers discovered that a low level of maternal vitamin D during the early part of pregnancy raises the odds that a child born of that pregnancy will develop clinically diagnosed ADHD by adolescence. The team studied 1,067 mother-child pairs in which the child was diagnosed with ADHD within 12 years of birth, and an equal number of mother-child pairs, matched demographically, in which the child was not diagnosed with ADHD. Maternal vitamin D levels were based on blood samples taken in the first or early second trimester of pregnancy. Vitamin D receptors, expressed in the brain, help regulate calcium signaling between brain cells; the nutrient also impacts factors which help neurons mature and grow. It is theorized that vitamin D depletion can lead to alterations in dopamine signaling, possibly giving rise to “hyperlocomotion” and increased activity.

The research team included: **David Gyllenberg M.D., Ph.D.**, 2015 BBRF Young Investigator; **Alan S. Brown, M.D., MPH**, 2019 BBRF Lieber Prize, 2015 BBRF Distinguished Investigator, 2004 and 2000 BBRF Independent Investigator, 1996 and 1993 BBRF Young Investigator.

NEW TECHNOLOGIES: EATING DISORDERS

New Technology Enables Manipulation of Neurons in Peripheral Organs & Reveals Mechanism of Appetite Suppression



Sung Il Park, Ph.D.

Texas A&M University

2018 BBRF Young Investigator

Nature Communications, January 8, 2021

Dr. Park and his team invented a new technology called optoelectronics that enabled them to activate and deactivate neurons in peripheral organs via tiny wireless devices; testing it, they discovered an unexpected mechanism for suppressing appetite. In contrast to optogenetic technology, which can manipulate neuronal activity within the brain only, optoelectronic devices are powered by extremely small light-emitting diodes with soft, highly flexible tethers that can be implanted successfully in peripheral organs. The focus of the team’s test of the technology were endings of the vagus nerve within the stomach, known to be important in the regulation of appetite. By activating specific vagus nerve endings in a specific area of the stomach in mice, appetite was suppressed—to the point of almost complete suppression when the stimulation was increased in intensity. This could have future implications in the treatment of eating disorders as well as obesity.

NEXT-GENERATION THERAPIES: PTSD

Repeated Ketamine Infusions Over 2 Weeks Significantly Reduced Chronic PTSD Symptoms



Adriana Feder, M.D.

Ichan School of Medicine at Mount Sinai

2015 BBRF Independent Investigator, 2002 BBRF Young Investigator

American Journal of Psychiatry, February 1, 2021

A small clinical trial showed that repeated infusions of the drug ketamine over a 2-week period can significantly reduce PTSD symptom severity, while also helping to reduce depression symptoms that often accompany PTSD. The first randomized study to test the efficacy of a course of repeated infusions in individuals with PTSD, the study recruited 30 chronic PTSD patients with moderate to severe symptoms, half of whom received 6 infusions of ketamine over 2 weeks while half received placebo infusions. Those responding to ketamine (reduction in symptoms of 30% or more) were followed until their symptoms returned. The positive results suggest the team can now test whether FDA-approved esketamine has similar benefits in chronic PTSD; and whether psychotherapy, added to a course of ketamine or esketamine, might reduce the likelihood of relapse once the infusions end.

The research team included: **Dennis S. Charney, M.D.**, BBRF Scientific Council, Emeritus, 2019 BBRF Colvin Prize; **James W. Murrough, M.D.**, 2009 BBRF Young Investigator; **Laura Bevilacqua, M.D.**, 2017 BBRF Young Investigator.

DIAGNOSTIC TOOLS/EARLY INTERVENTION; BASIC RESEARCH: SCHIZOPHRENIA, PSYCHOSIS

Study Links Schizophrenia Medicines' Anticholinergic Impact to Risk of Cognitive Impairment



Yash B. Joshi, M.D., Ph.D.

University of California, San Diego

2018 BBRF Young Investigator

A study of antipsychotic and other medications commonly prescribed to people with chronic schizophrenia has concluded that medicines with anticholinergic effects can "substantially" contribute to the risk of long-term cognitive impairment. The study assessed the total burden of anticholinergic medications (blocking action of the neurotransmitter acetylcholine) taken by 1,120 chronic schizophrenia outpatients, many of whom take medicines for comorbid health conditions that also have anticholinergic effects. Overall, 63% of participants had a significant burden, which the team associated with generalized impairments in cognitive functioning. Results, if validated, could help guide prescribing physicians make medication decisions that reduce patients' cognitive impairment risk.

The research team included: **Ming T. Tsuang, M.D., Ph.D.**, BBRF Scientific Council, 2010 BBRF Lieber Prize, 1998 BBRF Distinguished Investigator; **Raquel E. Gur, M.D., Ph.D.**, BBRF Scientific Council, 2009 BBRF Lieber Prize, 1999 BBRF Distinguished Investigator; **Neal R. Swerdlow, M.D., Ph.D.**, 2016 BBRF Distinguished Investigator, 1995 BBRF Independent Investigator, 1990 BBRF Young Investigator; **Bruce I. Turetsky, M.D.**, 2001 BBRF Independent Investigator; **Debby W. Tsuang, M.D., Ph.D.**, 2009 BBRF Independent Investigator, 2001 BBRF Young Investigator; **Tiffany A. Greenwood, Ph.D.**, 2008 BBRF Young Investigator; **William S. Stone, Ph.D.**, 2000 and 1997 BBRF Young Investigator; **Ruben C. Gur, Ph.D.**, 2007 BBRF Distinguished Investigator; **David L. Braff, M.D.**, 2014 BBRF Lieber Prize, 2007 BBRF Distinguished Investigator; **Juan Molina, M.D.**, 2020 BBRF Young Investigator.



Gregory A. Light, Ph.D.

University of California, San Diego

2009 BBRF Independent Investigator, 2001 BBRF Young Investigator

American Journal of Psychiatry, May 14, 2021

BASIC RESEARCH; NEXT-GENERATION THERAPIES: Depression

Brain Lesions and Treatment Targets in Depression Are Found to Affect the Same Circuitry, Suggesting New Treatment Possibilities



Shan H. Siddiqi, M.D.

*Harvard Medical School,
Brigham & Women's Hospital*

2019 BBRF Young Investigator

*Nature Human Behaviour,
July 8, 2021*

Researchers discovered that the brain circuitry underlying depression is the same or similar in a wide variety of patients and circumstances. Specifically, their work revealed that physical brain damage, or “lesions,” that result in depression affect the same or similar brain circuitry as the circuitry targeted by both invasive and non-invasive brain stimulation therapies that alleviate depression symptoms. These and other results of the study could lead to identification of new treatment targets in depression and possibly other neuropsychiatric disorders.

The research team included: **Helen S. Mayberg, M.D.**, BBRF Scientific Council, 2007 BBRF Falcone Prize, 2002 BBRF Distinguished Investigator, 1995 BBRF Independent Investigator, 1992 BBRF Young Investigator; **Mark S. George, M.D.**, BBRF Scientific Council, 2008 BBRF Falcone Prize, 1998 BBRF Independent Investigator, 1996 BBRF Young Investigator; **Robin Cash, Ph.D.**, 2020 BBRF Young Investigator; **Ki Sueng Choi, Ph.D.**, 2016 BBRF Young Investigator; **Darin Dougherty, M.D.**, 2003 BBRF Young Investigator; **Paul Fitzgerald, Ph.D.**, 2005 BBRF Young Investigator; **Alvaro Pascual-Leone, M.D., Ph.D.**, 1998 BBRF Independent Investigator.

BASIC RESEARCH; DIAGNOSTIC TOOLS/EARLY INTERVENTION: ANXIETY

Excessive Sensory Response at Birth May Signal Risk for Later Anxiety, Research Suggests



Chad M. Sylvester, M.D., Ph.D.

Washington University, St. Louis

2017 BBRF Young Investigator

*American Journal of Psychiatry,
August 1, 2021*

The response of various brain systems to unexpected stimuli provides insights into processes in the brain that enable individuals to respond to salient information and to suppress responses to stimuli that are not relevant or helpful in a given context. New evidence in infants connects sensory overresponse to unexpected auditory stimuli and risk of anxiety disorder. Brain network activity levels in the newborns were shown to be correlated with their mothers' scores on a standard measure of anxiety, suggesting their potential utility as biomarkers. In older children and adults with anxiety disorder, researchers have noted weakened inhibitory responses. Results of this study suggest neural stimulus-response properties near birth signal risk for processes in the brain that generate later-life anxiety and elevated risk in adulthood of depression, substance-use disorders, eating disorders, and bipolar disorder.

The research team included three BBRF Scientific Council members: **Joan Luby, M.D.**, BBRF 2020 Ruane Prize, 2004 BBRF Klerman Prize, 2008 and 2004 BBRF Independent Investigator, 1999 BBRF Young Investigator; **Daniel Pine, M.D.**, 2011 BBRF Ruane Prize, 2000 BBRF Independent Investigator; **Deanna Barch, Ph.D.**, 2013 BBRF Distinguished Investigator, 2006 BBRF Independent Investigator, 2000 and 1995 BBRF Young Investigator.

NEXT-GENERATION THERAPIES: Depression

Positive Preliminary Results in Highly Personalized Deep-Brain Stimulation Therapy for Treatment-Resistant Depression



Katherine W. Scangos, M.D., Ph.D.

University of California, San Francisco

2018 BBRF Young Investigator

Researchers reported initial success in using a novel, highly personalized, and technologically advanced deep-brain stimulation (DBS) approach to rapidly relieve symptoms, eliminate suicidal thoughts, and by 4 months, achieve remission in a patient with lifelong and severe treatment-resistant depression. The team used a form of brain stimulation called closed-loop neuromodulation, in which prior extensive mapping of the patient's neural circuitry preceded the implantation, via surgery, of a battery-powered deep-brain stimulation (DBS) device. The device was "tuned" to activate briefly (in 6-second bursts) throughout each day in response to signals within the brain sensed by the device and which had been linked with the onset of the patient's depressed moods.



Andrew D. Krystal, M.D.

University of California, San Francisco

1997, 1993 BBRF Young Investigator

Nature Medicine, October 4, 2021

NEXT-GENERATION THERAPIES: Depression

Non-Invasive Brain-Stimulation Protocol for Treatment-Resistant Depression Enabled 79% to Experience Remission Following 5-Day Treatment Course



Nolan R. Williams, M.D.

Stanford University

2019 BBRF Klerman Prize
2018, 2016 BBRF Young Investigator

American Journal of Psychiatry, October 29, 2021

In its first randomized, placebo-controlled test, an enhanced form of non-invasive brain stimulation called SNT (Stanford Neuromodulation Therapy, formerly called SAINT) generated "a large antidepressant effect" that enabled 79% of treatment-resistant patients to experience remissions within 4 weeks of the conclusion of the 5-day course of treatment. Over a 4-week period following the treatment course, over 85% of participants who received SNT responded (symptom reduction of 50% or greater). In addition to other possible applications, the brevity of the SNT treatment course compared with standard rTMS therapy and its high rate of effectiveness suggests its potential utility in treating patients in emergency or inpatient settings.

The research team included **Alan Schatzberg, M.D.**, BBRF Scientific Council member.

BASIC RESEARCH, NEXT-GENERATION THERAPIES: Depression

Two Signaling Pathways Involved in Regulating Synaptic Plasticity Suggest Novel Targets for Rapid-Acting Antidepressants



Kanzo Suzuki, Ph.D.

Vanderbilt University

2018 BBRF Young Investigator

Researchers reported the involvement of two chemical signaling pathways in generating homeostatic plasticity, which they suggest plays a key role in rapid antidepressant action such as that seen following the administration of the drug ketamine. The research could advance the search for novel drugs that will have ketamine's rapid action, but fewer side effects. It suggests how changes in pathways "downstream" of the NMDA receptor—thought to be the target of ketamine and precipitated by ketamine's blockade of the receptor—may produce homeostatic plasticity, which appears to modulate circuit function globally in the brain, and does not directly affect synaptic plasticity mechanisms that process and store information. Drugs targeting homeostatic mechanisms thus might preserve memory and cognitive function.



Lisa Monteggia, Ph.D.

Vanderbilt University

BBRF Scientific Council,
2014 BBRF Distinguished Investigator,
2010 BBRF Independent Investigator,
2005 BBRF Freedman Prize,
2003, 2001 BBRF Young Investigator



Ege Kavalali, Ph.D.

Vanderbilt University

2012 BBRF Distinguished
Investigator

Cell Reports,
November 2, 2021

BASIC RESEARCH: Addiction

Researchers Propose a New Understanding of Dopamine's Role in Learning and Memory



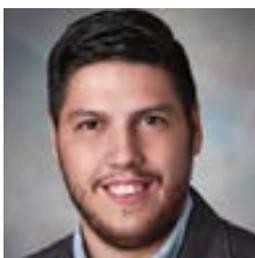
Erin S. Calipari, Ph.D.

Vanderbilt University

2016 BBRF Young Investigator

Researchers proposed a markedly new way of understanding the role of dopamine in the brain. Ubiquitous throughout the brain and body, and serving a variety of functions, dopamine has long been regarded as key to the brain's reward system, and thus has often been thought of as playing a key role in the biology of addiction. Dysregulation of the dopamine system has also been hypothesized in depression, anxiety, and schizophrenia. For the last 20 years, dopamine has been thought to be central in a mechanism that enables individuals to adapt once expected rewards do not materialize. The new research suggests "reward-prediction error" is only part of what dopamine does. While rewards increase dopamine levels in the brain, so do stressful stimuli: dopamine helps encode information about all types of important and relevant events and drives adaptive behavior—regardless of whether it is positive or negative. The revised view has potentially broad implications for our understanding of behavioral control and a number of psychiatric disorders.

The research team also included **Cody A. Siciliano, Ph.D.**, 2017 BBRF Young Investigator.



Munir Gunes Kutlu, Ph.D.

Vanderbilt University

2019 BBRF Young Investigator

Current Biology,
November 8, 2021

2021 Leading COVID-Related Discoveries by Foundation Grantees, Prize Winners, & Scientific Council Members

People With Schizophrenia Have Increased Risk of Dying From COVID-19



Donald C. Goff, M.D.

NYU Langone Medical Center

2009, 2003 BBRF Independent Investigator

JAMA Psychiatry,
January 27, 2021

A study conducted in a major New York City hospital system found that people with schizophrenia have 2.7 times the overall risk of dying within 45 days if they are infected with the COVID-19 virus. Higher mortality was not seen in people with depression or anxiety who contracted the virus.

The research team included: **Mark Olfson, M.D., MPH**, 2005 BBRF Distinguished Investigator

A Close Look at How COVID-19 Infection Can Damage the Brain



Maura Boldrini, M.D.

Columbia University

2014 BBRF Independent Investigator,
2006, 2003 BBRF Young Investigator

JAMA Psychiatry,
March 26, 2021

Neuropsychiatric symptoms in COVID-19 patients suggest independent brain damage attributable to viral infection, researchers said. Symptoms include cognitive and attention deficits (“brain fog”), anxiety, depression, psychosis, seizures, and suicidal behavior. Inflammation in the central nervous system is a likely contributor, they said. The researchers noted that COVID-19 proteins have been found in the lining of blood vessels in the brain. They suggested various means by which viral particles might leak through the blood-brain barrier, a membrane designed to protect the brain from viruses, toxins, and other harmful factors.

New Evidence Suggests COVID May Enter the Brain via Cellular ‘Trojan Horses’



Lu Wang, Ph.D.

University of California, San Diego

2019 BBRF Young Investigator

Nature Medicine,
July 9, 2021

Researchers published new evidence suggesting how the COVID virus gains access to the brain. They found that cells called pericytes which surround the brain’s blood vessels may act as “Trojan horses,” providing a path for the virus to enter, replicate, and then infect surrounding brain cells and tissue. The team discovered that pericytes contain ACE2 receptors, a known passageway for COVID entry into cells elsewhere in the body. ACE2 receptors are found in abundance in the lungs, arteries, heart, kidney and intestines, but were not previously known to be produced in human pericytes.

Study Sheds Light on Prevalence of 'Long-COVID,' Including Cognitive and Psychiatric Symptoms



**Paul J. Harrison, M.D.
FRCPsych**

Oxford University, UK

2004 BBRF Independent
Investigator

PLOS Medicine,
September 28, 2021

In a study involving over 273,000 patients, researchers provided a detailed picture of “long COVID”—how common its 9 core symptoms are and who is most likely to experience them. Most commonly reported was depression/anxiety, experienced by 22% within 6 months of diagnosis and 15% 3 to 6 months after diagnosis. Among other observations: long-COVID features were recorded in children and young adults, and also in more than half of non-hospitalized patients, confirming that they occur even in young people and those with relatively mild illness. This is significant in public health terms given that most people with COVID-19 are in the latter group, the researchers noted.

Negative Symptoms in Schizophrenia Worsened Under Pandemic Conditions



Gregory P. Strauss, Ph.D.

University of Georgia

2018 BBRF Young Investigator

*European Archives of Psychiatry
& Clinical Neuroscience,*
October 30, 2021

Researchers found that social distancing and isolation stemming from the pandemic caused a significant worsening of negative symptoms (flattened emotions, reduced motivation, difficulty speaking, a disinclination to socialize or seek pleasure) in schizophrenia patients, and to a lesser degree in those at clinically high risk of developing psychosis.



Claudia Espinosa-Garcia, Ph.D., 2019 BBRF Young Investigator Grantee in her lab at Emory University.

BBRF Grants Pave the Way to Improved Treatments, Cures, and Methods of Prevention

SINCE 1987:



THE MULTIPLIER EFFECT

BBRF Grant recipients have gone on to receive an estimated \$4.3 billion in additional research funding in next stage NIMH and NIH grants.

No other organization outside of the federal government has funded the number of mental health research grants that the Foundation has—or been responsible for more breakthroughs in the field.

Our Grants support a broad range of the best ideas in brain research. Funding is focused on four priority areas to better understand and treat mental illness, aiming toward prevention and cures:

Research Categories

Basic Research

To understand what happens in the brain to cause mental illness

Diagnostic Tools/Early Intervention

To recognize early signs of mental illness and treat as early as possible

New Technologies

To advance or create new ways of studying and understanding the brain

Next-Generation Therapies

To reduce symptoms of mental illness and ultimately cure and prevent brain and behavior disorders

The path to being awarded a BBRF Grant starts with an application. Applicants for grants describe why they think their project could help lead to new insights and advances in brain and behavior disorders and represent the best and the brightest talent from world-class institutions.

The BBRF's Scientific Council, which is made up of 181 preeminent mental health researchers and led by Dr. Herbert Pardes, volunteer their time to review and evaluate applications. The Scientific Council not only looks for projects with the greatest potential for immediate breakthroughs in neurobiological and psychiatric research, but also at projects which can yield parallel benefits for many years to come.

This venture capital-like approach to research funding has had tremendous success in advancing the field and helping more people live full, happy, and productive lives.

“For more than 30 years BBRF has focused on funding visionary young investigators who see opportunities in forging new paths. By supporting ground-breaking work BBRF helps set the trajectory of brain research and builds momentum toward discoveries that we expect will yield advances in neuroscience. BBRF grants enable outstanding scientists to pursue bold new ideas to answer important questions or help identify potentially game-changing targets for treatment. The awards function as seed funding for new directions which would otherwise be highly unlikely.”

Herbert Pardes, M.D.

President, BBRF Scientific Council

BBRF Young Investigator Grants in 2021

788
YOUNG
INVESTIGATOR
APPLICATIONS

150
YOUNG
INVESTIGATOR
GRANTS
AWARDED

\$10.3
MILLION AWARDED
IN YOUNG
INVESTIGATOR
GRANTS

BBRF Young Investigator Grants give early-career scientists the initial funding they need to begin to test their ideas and solidify their academic research careers. Young Investigator Grants provide scientists with \$35,000/year for two years, totaling \$70,000. This seed money enables them to generate the preliminary data, or “proof of concept” that they need to compete for larger grants from traditional funding sources like the National Institutes of Health.

A number of the new 2021 projects focus on early development of the brain, beginning in the fetal period and extending into the months and years following birth.

Some grantees are addressing very timely issues. One project, for instance, seeks to discover whether major depression is associated with impaired response to COVID-19 vaccines. Another project seeks to assess how racial discrimination may heighten risk of future depression in adolescent African-American girls with mothers who have been clinically depressed. Another project assesses the impact of stress upon refugees and victims of war trauma.

A few other intriguing 2021 Young Investigator projects include: probing a possible relationship between “screen time” and emotional and cognitive problems in adolescents; the possible role of dietary supplements to improve the health of women with the eating disorder anorexia nervosa who are pregnant; testing a biofeedback-based therapy to treat PTSD in young people; testing a smartphone app which collects data that could help prevent suicidal behaviors.

These are just a few highlights of the research projects that our grantees will be working on. It’s an exciting and very promising time in brain research that we hope will lead to improved treatments in the years to come.

Co-Chairs of the Young Investigator Grant Selection Committee



Judy M. Ford, Ph.D.
Professor, Department of
Psychiatry
*University of California,
San Francisco*
BBRF Scientific Council Member
2003 BBRF Independent
Investigator



Suzanne N. Haber, Ph.D.
Professor, Department of
Pharmacology and Physiology
*University of Rochester School of
Medicine and Dentistry*
BBRF Scientific Council Member
2011 BBRF Distinguished
Investigator

“Breakthroughs in science cannot be predicted. Sometimes researchers start with one idea but are led in a different direction by their results or the results of other scientists. BBRF Young Investigators represent the next generation of scientists who we expect will make great strides in basic research, new technologies, next-generation therapies and early intervention techniques. This is the kind of out-of-the-box research that will offer the best hope for improved treatments, cures, and methods of prevention for our loved ones.”

Dr. Jeffrey Borenstein

2021 BBRF Young Investigator Grants by Illness

Some grantees are listed under multiple categories as their grant projects are relevant to more than one illness.

ADDICTION / SUBSTANCE-USE DISORDERS

Ana-Clara Bobadilla, Ph.D.

 Basic Research

Gabriel D. Bosse, Ph.D.

 Basic Research

Mickaël Degoulet, Ph.D.

 Diagnostic Tools/Early Intervention

Rafiq Huda, Ph.D.

 Basic Research

Sara Liane Kroll, Ph.D.

 Basic Research

Nathan J. Marchant, Ph.D.

 Basic Research

Sara Pinto dos Santos Matias, Ph.D.

 Basic Research

Tara Raam, Ph.D.

 Basic Research

William Renthal, M.D., Ph.D.

 Basic Research

Vaughn R. Steele, Ph.D.

 Next-Generation Therapies

Tamara J. Sussman, Ph.D.

 Basic Research

Youna Vandaele, Ph.D.

 Basic Research

Elizabeth A. West, Ph.D.

 Basic Research

Junhua Yang, Ph.D.

 Basic Research

Anna Zilverstand, Ph.D.

 Diagnostic Tools/Early Intervention

ATTENTION-DEFICIT HYPERACTIVITY DISORDER (ADHD)

Julien Ferent, Ph.D.

 Basic Research

Heather M. Joseph, M.D.

 Basic Research

 Diagnostic Tools/Early Intervention

Brian C. Kavanaugh, Psy.D.

 Next-Generation Therapies

Jesse Marshall, Ph.D.

 Basic Research

 New Technologies

Rhiannon V. McNeill, Ph.D.

 Basic Research

Richard C. Sando, Ph.D.

 Basic Research

Max Tischfield, Ph.D.

 Basic Research

ANXIETY DISORDERS

Mohsin Saeed Ahmed, M.D., Ph.D.

 Basic Research

Estefania Pereira Cardoso Azevedo, Ph.D.

 Basic Research

Nicholas L. Balderston, Ph.D.

 Next-Generation Therapies

Daniel S. Barron, M.D., Ph.D.

 Basic Research

Isaac Cervantes-Sandoval, Ph.D.

 Basic Research

Nuria Daviu Abant, Ph.D.

 Basic Research

 Next-Generation Therapies

Ian Thomas Ellwood, Ph.D.

 Basic Research

 New Technologies

Angela Fang, Ph.D.

 Next-Generation Therapies

Anna J. Finley, Ph.D.

 Diagnostic Tools/Early Intervention

Akhgar Ghassabian, M.D., Ph.D.

 Basic Research

Lindsay R. Halladay, Ph.D.

 Basic Research

Katia M. Harle, Ph.D.

 Next-Generation Therapies

Iliana Irimi Karipidis, Ph.D.

 Basic Research

Dalia Khalil, Ph.D.

 Basic Research

Mudasir A. Khanday, Ph.D.

 Basic Research

João Paulo Lima Santos, M.D.

 Basic Research

Bianca J. Marlin, Ph.D.

 Basic Research

Susanna Molas Casacuberta, Ph.D.

 Basic Research

Cynthia Ortinau, M.D.

 Diagnostic Tools/Early Intervention

Tara Raam, Ph.D.

 Basic Research

Juan F. Ramirez-Villegas, Ph.D.

 Basic Research

Patrick R. Sweeney, Ph.D.

 Next-Generation Therapies

Kristin L. Szuhany, Ph.D.

 Next-Generation Therapies

Shawniqua Williams Roberson, M.D.

 Diagnostic Tools/Early Intervention

 Next-Generation Therapies

AUTISM SPECTRUM DISORDER (ASD)

Aparna Bhaduri, Ph.D.
IDCI Basic Research
IDCI New Technologies

Shuo Chen, Ph.D.
IDCI Basic Research
IDCI New Technologies

Stephanie Dooves, Ph.D.
IDCI Basic Research

Ben B. Engelhard, Ph.D.
IDCI Basic Research

Shannon Farris, Ph.D.
IDCI Basic Research
IDCI New Technologies

Julien Ferent, Ph.D.
IDCI Basic Research

Erin M. Gibson, Ph.D.
IDCI Basic Research

Ariel Gilad, Ph.D.
IDCI Basic Research
IDCI New Technologies

Anubhuti Goel, Ph.D.
IDCI Basic Research

Kuangfu Hsiao, Ph.D.
IDCI Basic Research

Matthew A. Lalli, Ph.D.
IDCI Basic Research
IDCI New Technologies

Marco Lanzilotto, Ph.D.
IDCI Basic Research

Zhen Li, Ph.D.
IDCI Basic Research

Jesse Marshall, Ph.D.
IDCI Basic Research
IDCI New Technologies

Tara Raam, Ph.D.
IDCI Basic Research

Siyuan Rao, Ph.D.
IDCI Basic Research

Simon Thomas Schafer, Ph.D.
IDCI Basic Research

Keerthi Thirtamara Rajamani, Ph.D.
IDCI Basic Research

Justin M. Wolter, Ph.D.
IDCI Basic Research

BIPOLAR DISORDER

Nicole M. Benson, M.D.
IDCI Diagnostic Tools/Early Intervention

Pao-Huan Chen, M.D.
IDCI Diagnostic Tools/Early Intervention

Garrett A. Kaas, Ph.D.
IDCI Basic Research

Karina A. Kruth, Ph.D.
IDCI Basic Research

Amy Peters, Ph.D.
IDCI Diagnostic Tools/Early Intervention
IDCI New Technologies

BORDERLINE PERSONALITY DISORDER

Lois W. Choi-Kain, M.D.
IDCI Diagnostic Tools/Early Intervention
IDCI Next-Generation Therapies

Brandy N. Tiernan, Ph.D.
IDCI Basic Research

DEPRESSION

Liza Ashbrook, M.D.
IDCI Basic Research

Anita Ellen Autry, Ph.D.
IDCI Basic Research

Pia Baldinger-Melich, M.D., Ph.D.
IDCI Next-Generation Therapies

Marjolein E.A. Barendse, Ph.D.
IDCI Basic Research

Daniel S. Barron, M.D., Ph.D.
IDCI Basic Research

Chloe C. Boyle, Ph.D.
IDCI Basic Research

Katharine K. Brewster, M.D.
IDCI Basic Research

Nuria Daviu Abant, Ph.D.
IDCI Basic Research
IDCI Next-Generation Therapies

Anna J. Finley, Ph.D.
IDCI Diagnostic Tools/Early Intervention

Bart N. Ford, Ph.D.
IDCI Diagnostic Tools/Early Intervention

Akhgar Ghassabian, M.D., Ph.D.
IDCI Basic Research

Lindsay R. Halladay, Ph.D.
IDCI Basic Research

Holly K. Hamilton, Ph.D.
IDCI Basic Research
IDCI Next-Generation Therapies

Katia M. Harle, Ph.D.
IDCI Next-Generation Therapies

Iliana Irimi Karipidis, Ph.D.
IDCI Basic Research

Dalia Khalil, Ph.D.
IDCI Basic Research

Ji-Woon Kim, Ph.D.
IDCI Basic Research
IDCI Next-Generation Therapies

Long Li, Ph.D.
IDCI Basic Research

João Paulo Lima Santos, M.D.
IDCI Basic Research

Carla Nasca, Ph.D.
IDCI Next-Generation Therapies

Cynthia Ortinau, M.D.
IDCI Diagnostic Tools/Early Intervention

Eric M. Parise, Ph.D.
IDCI Basic Research

Beatriz Penalver Bernabe, Ph.D.
IDCI Diagnostic Tools/Early Intervention

Sara Pinto dos Santos Matias, Ph.D.
IDCI Basic Research

Tara Raam, Ph.D.
IDCI Basic Research

Ryan Rampersaud, M.D., Ph.D.
IDCI Basic Research

Marit F.L. Ruitenbergh, Ph.D.
IDCI Diagnostic Tools/Early Intervention

Shai Sabbah, Ph.D.
IDCI Next-Generation Therapies

Nicolas B. Senese, Ph.D.
IDCI Basic Research
IDCI Next-Generation Therapies

Patrick R. Sweeney, Ph.D.
IDCI Next-Generation Therapies

Michael L. Wallace, Ph.D.
IDCI Basic Research

Yun Wang, M.D., Ph.D.

 *Basic Research*

Shawniqua Williams Roberson, M.D.

 *Diagnostic Tools/Early Intervention*

 *Next-Generation Therapies*

Mary L. Woody, Ph.D.

 *Diagnostic Tools/Early Intervention*

Frances Xia, Ph.D.

 *Basic Research*

Peng Zhong, Ph.D.

 *Basic Research*

EATING DISORDERS

Estefania Pereira Cardoso

Azevedo, Ph.D.

 *Basic Research*

Neta Gazit Shimoni, Ph.D.

 *Basic Research*

 *Next-Generation Therapies*

Moritz Herle, Ph.D.

 *Basic Research*

Michael D. Kendig, Ph.D.

 *Basic Research*

Marilena Marraudino, Ph.D.

 *Basic Research*

Patrick R. Sweeney, Ph.D.

 *Next-Generation Therapies*

Blair Uniacke, M.D.

 *Basic Research*

 *Diagnostic Tools/Early Intervention*

OBSESSIVE-COMPULSIVE DISORDER (OCD)

Miles Wischnewski, Ph.D.

 *Next-Generation Therapies*

PSYCHOSIS

Ivan Alekseichuk, Ph.D.

 *Next-Generation Therapies*

Neal D. Amin, M.D., Ph.D.

 *New Technologies*

 *Basic Research*

Dominic B. Dwyer, Ph.D.

 *Basic Research*

Tina D. Kristensen, Ph.D.

 *Basic Research*

Maria Rogdaki, M.D., Ph.D.

 *Basic Research*

 *Next-Generation Therapies*

Johanna Seitz-Holland, M.D., Ph.D.

 *Diagnostic Tools/Early Intervention*

Kazunari Yoshida, M.D., Ph.D.

 *Diagnostic Tools/Early Intervention*

POST-TRAUMATIC STRESS DISORDER (PTSD)

Mohsin Saeed Ahmed, M.D., Ph.D.

 *Basic Research*

Liza Ashbrook, M.D.

 *Basic Research*

Antoine Besnard, Ph.D.

 *Basic Research*

 *Diagnostic Tools/Early Intervention*

Isaac Cervantes-Sandoval, Ph.D.

 *Basic Research*

Elizabeth V. Goldfarb, Ph.D.

 *Basic Research*

Lindsay R. Halladay, Ph.D.

 *Basic Research*

Nathaniel G. Harnett, Ph.D.

 *Basic Research*

Dalia Khalil, Ph.D.

 *Basic Research*

Bianca J. Marlin, Ph.D.

 *Basic Research*

Joshua R. Oltmanns, Ph.D.

 *Diagnostic Tools/Early Intervention*

Justin D. Russell, Ph.D.

 *Next-Generation Therapies*

Melissa J. Sharpe, Ph.D.

 *Basic Research*

Kristin L. Szuhany, Ph.D.

 *Next-Generation Therapies*

Sanne J.H. van Rooij, Ph.D.

 *Next-Generation Therapies*

Shawniqua Williams Roberson, M.D.

 *Diagnostic Tools/Early Intervention*

 *Next-Generation Therapies*

SCHIZOPHRENIA

Ivan Alekseichuk, Ph.D.

 *New Technologies*

 *Next-Generation Therapies*

Kerem Böge, Ph.D.

 *Next-Generation Therapies*

Kelsey A. Bonfils, Ph.D.

 *Basic Research*

Lucas M. Cheadle, Ph.D.

 *Basic Research*

Javier Diaz Alonso, Ph.D.

 *Basic Research*

Jennifer Jane Donegan, Ph.D.

 *Basic Research*

Xiaoming Du, Ph.D.

 *Next-Generation Therapies*

Amanda L. Elliott, M.D., Ph.D.

 *Diagnostic Tools/Early Intervention*

Joana Ferreira, Ph.D.

 *Basic Research*

Yudong Gao, Ph.D.

 *Basic Research*

 *New Technologies*

Ariel Gilad, Ph.D.

 *Basic Research*

 *New Technologies*

Melanie J. Grubisha, M.D., Ph.D.

 *Basic Research*

Jordan Hamm, Ph.D.

 *Basic Research*

Rasmus Herlo, Ph.D.

 *Basic Research*

 *New Technologies*

Stephanie L. Hickey, Ph.D.

 *Basic Research*

Brian C. Kavanaugh, Psy.D.

 *Next-Generation Therapies*

Qingyun Li, Ph.D.

 *Basic Research*

Jeffrey Lopez-Rojas, Ph.D.

 *Basic Research*

Robert G. Mealer, M.D., Ph.D.

 *Basic Research*

Ryan H. Purcell, Ph.D.

 *Basic Research*

Sebastian Reinartz, Ph.D.

 *Basic Research*

Maria Rogdaki, M.D., Ph.D.

 *Basic Research*

 *Next-Generation Therapies*

Keerthi Thirtamara Rajamani, Ph.D.

 *Basic Research*

Alejandro M. Trujillo, Ph.D.

 *Diagnostic Tools/Early Intervention*

Kazunari Yoshida, M.D., Ph.D.

 *Diagnostic Tools/Early Intervention*

SUICIDE PREVENTION

Giovanna Punzi, M.D.

 *Basic Research*

Anna Robinson Van Meter, Ph.D.

 *Diagnostic Tools/Early Intervention*

Cory R. Weissman, M.D.

 *Next-Generation Therapies*

Melinda Westlund Schreiner, Ph.D.

 *Next-Generation Therapies*

BIOLOGY OF THE BRAIN

(These projects focus on how the brain works.)

Wenjie Bian, Ph.D.

(Dopamine and Sleep)

 *Basic Research*

Jonathan A. Coleman, Ph.D.

(Synaptic Vesicles)

 *Basic Research*

Jonathan R. Coleman, Ph.D.

(Genetic Variation)

 *Basic Research*

Guusje Collin, M.D., Ph.D.

(Neurofeedback)

 *Diagnostic Tools/Early Intervention*

 *Next-Generation Therapies*

Akira Fushiki, Ph.D.

(Dopamine System)

 *Basic Research*

Xiaoqing Gao, Ph.D.

(Biomolecular Circuits)

 *Basic Research*

 *Next-Generation Therapies*

 *New Technologies*

John B. Issa, M.D., Ph.D.

(Interval Timing)

 *Basic Research*

 *New Technologies*

Christina K. Kim, Ph.D.

(Neural Encoding)

 *Basic Research*

 *New Technologies*

Bianca J. Marlin, Ph.D.

(Epigenetic Inheritance)

 *Basic Research*

Clare E. Palmer, Ph.D.

(Neurodevelopmental Pathways)

 *Basic Research*

Nathaniel S. Rieger, Ph.D.

(Stress Response)

 *Basic Research*

Pamela L. Scorza Bianchotti, Ph.D.

(Epigenetic Inheritance)

 *Diagnostic Tools/Early Intervention*

Ikuko Smith, Ph.D.

(Dendritic Pathogenesis)

 *Basic Research*

Sofia Soares, Ph.D.

(Learning, Cognitive Flexibility)

 *Basic Research*

Meiyan Wang, Ph.D.

(Astrocytes and Inflammation)

 *Basic Research*

Yang Zhou, Ph.D.

(Epigenetics and Neurodevelopmental Disorders)

 *Basic Research*

OTHER DISORDERS

Epilepsy

Changuk Chung, Ph.D.

 *Basic Research*

Jonathan A. Coleman, Ph.D.

 *Basic Research*

Fragile X Syndrome

Shannon Farris, Ph.D.

 *Basic Research*

 *New Technologies*

Anubhuti Goel, Ph.D.

 *Basic Research*

Gender Dysphoria

Akhgar Ghassabian, M.D., Ph.D.

 *Basic Research*

Iliana Irimi Karipidis, Ph.D.

 *Basic Research*

Tourette Syndrome

Emily Julia Ricketts, Ph.D.

 *Next-Generation Therapies*

Max Tischfield, Ph.D.

 *Basic Research*

2021 Young Investigators Institutional Affiliation at the Time of the Grant

(in alphabetical order)

Aix-Marseille University/CNRS, France
Albert Einstein College of Medicine
Amsterdam University Medical Centers,
The Netherlands
Beth Israel Deaconess Medical Center
Boston College
Boston University
Brigham and Women's Hospital (3)
Brown University
Center for Clinical Intervention and
Neuropsychiatric Schizophrenia Research, Denmark
Center for Neuroscience and Cell Biology, Portugal
Centre for Addiction and Mental Health,
University of Toronto, Canada
Charité University Medicine Berlin and Freie
Universität Berlin, Germany
Children's National Hospital
Cold Spring Harbor Laboratory
Columbia University (5)
Cornell University
Dell Medical School,
University of Texas at Austin
Duke University
Emory University School of Medicine (2)
Feinstein Institute for Medical Research/
Northwell Health
Georgetown University
Georgia State University
Harvard University (8)
Harvard Medical School
Hebrew University, Israel (2)
Icahn School of Medicine at Mount Sinai (5)
INSERM, France
Institute of Functional Genomics,
Université de Montpellier, France
Institute of Science and Technology,
Austria
Johns Hopkins University School of Medicine
King's College London, UK (3)
Laureate Institute for Brain Research
Leiden University, The Netherlands
Lieber Institute for Brain Development,
Johns Hopkins University
Ludwig Maximilian University, Germany
Massachusetts General Hospital (3)
McGill University, Canada
McLean Hospital (3)
Medical University of Vienna, Austria
Michigan State University
New York University (2)
New York University School of Medicine
Northwestern University
Radboud University, The Netherlands

Rutgers University (2)
 Research Foundation for Mental Hygiene, Inc./
 Nathan Kline Institute (5)
 Rowan University
 St. Louis College of Pharmacy and Washington
 University in St. Louis
 Salk Institute for Biological Studies (2)
 Santa Clara University
 SRI International
 Stanford University (6)
 Stony Brook University
 Taipei Medical University, Republic of China
 Technion-Israel Institute of Technology, Israel
 The Rockefeller University (3)
 University Hospital Würzburg, Germany
 University of Basel, Switzerland
 University of Calgary, Canada
 University of California, Berkeley
 University of California, Irvine
 University of California, Los Angeles (5)
 University of California, Riverside
 University of California, San Diego (4)
 University of California, San Francisco (4)
 University of California, Santa Barbara
 University of Illinois at Chicago (2)
 University of Illinois at Urbana-Champaign
 University of Iowa
 University of Lausanne, Switzerland
 University of Maryland
 University of Massachusetts Medical School (2)
 University of Minnesota 3
 University of North Carolina at Chapel Hill
 University of Oregon
 University of Pennsylvania
 University of Pittsburgh (5)
 University of Southern Mississippi
 University of Sydney, Australia
 University of Turin, Italy (2)
 University of Utah (2)
 University of Washington
 University of Wisconsin
 University of Wisconsin-Madison
 University of Wyoming
 University of Zurich Brain Research Institute,
 Switzerland
 Vanderbilt University (3)
 Vanderbilt University Medical Center
 Virginia Polytechnic Institute and State University
 Vrije Universiteit Amsterdam, The Netherlands
 Wayne State University
 Washington University School of Medicine
 Western Carolina University
 Yale University
 Yale University School of Medicine

The Klerman & Freedman Awards



The Brain & Behavior Research Foundation honored and recognized the exceptional work of six outstanding young researchers who have previously received awards through the BBRF's Young Investigator Grant program with its annual Klerman & Freedman Prizes for exceptional clinical and basic research in mental illness.

The Klerman and Freedman prizes recognize innovative thinking and remarkable talent across the field of neuropsychiatry. These prizes pay tribute to Drs. Gerald L. Klerman and Daniel X. Freedman, whose legacies as researchers, teachers, physicians and administrators have indelibly influenced neuropsychiatry.

Their outstanding contributions to the field of brain and behavior research continue to inspire scientists who knew them, as well as those who are just entering the field.

The prizewinners were selected by committees of the Foundation's Scientific Council.

**ANNUAL KLERMAN PRIZE
FOR EXCEPTIONAL CLINICAL RESEARCH**



Nicholas L. Balderston, Ph.D.
*University of Pennsylvania
Center for Neuromodulation in
Depression and Stress*

**ANNUAL FREEDMAN PRIZE
FOR EXCEPTIONAL BASIC RESEARCH**



Meaghan Creed, Ph.D.
*Washington University
Pain Center,
Department of Anesthesiology
Washington University in St. Louis*

HONORABLE MENTIONS



Hengyi Cao, Ph.D.
*Feinstein Institutes for Medical
Research, Northwell Health
West China Hospital*

HONORABLE MENTIONS



Denise Cai, Ph.D.
*Icahn School of Medicine at
Mount Sinai*



Nolan R. Williams, M.D.
*Stanford University
Director, Brain Stimulation Lab
Director, Interventional
Psychiatry Clinical Research*



Tomasz J. Nowakowski, Ph.D.
*The University of California,
San Francisco*



STRIVING TOWARD CURES THROUGH RESEARCH

Scientist Spotlight with: **Nicholas L. Balderston, Ph.D.**

2021 BBRF Klerman Prize for Exceptional Basic Research

2018 BBRF Young Investigator Award (YI)

Nicholas Balderston's lab uses experimental design, psychophysiology, neuroimaging, and neuromodulation to explore the mechanisms that mediate the expression and regulation of anxiety. His work focuses on two primary objectives. The first is to model specific symptoms of anxiety in healthy individuals, and target these symptoms with cutting-edge noninvasive neuromodulation techniques. The second is to develop and conduct randomized-controlled clinical trials in patients with anxiety, using treatment protocols developed in healthy volunteers. This approach is designed to translate the scientific knowledge gained from healthy volunteer studies to real-world treatments capable of improving the lives of people with anxiety disorders. The ultimate aim of his research is to provide the foundation for novel neuromodulatory treatments for individuals suffering from severe anxiety.

WHAT IS THE CURRENT STATE OF YOUR BBRF FUNDED RESEARCH?

I am currently in the final stages of the project proposed in my 2018 BBRF YI award. It has led both to my position at the University of Pennsylvania, and to the award of an NIMH K01 career development award.

HOW DO YOUR INTERACTIONS WITH PEOPLE LIVING WITH MENTAL ILLNESS AFFECT YOUR RESEARCH AND VICE-VERSA?

My primary area of research is understanding the expression and regulation of anxiety. During the last 18 months, the political climate and global pandemic have led to a profound increase in anxiety that is felt across the board. It is a reminder that as mental health professionals, our contributions are more important than ever.

WHAT HAS BBRF SUPPORT MEANT TO YOUR CAREER?

The research supported by my 2018 BBRF YI led to the publication of several high-impact research manuscripts, provided key pilot data for my K01 career development award, and was a major factor in the hiring decision that led to my position at Penn. It is safe to say that the BBRF support has been instrumental in launching my career as an independent investigator.

IN THE BEST POSSIBLE SCENARIO, HOW WOULD YOUR WORK IMPACT THE PEOPLE LIVING WITH MENTAL ILLNESS AND THEIR FAMILIES?

In the best possible scenario, my work would provide the foundation for novel neuromodulatory treatments for individuals suffering from severe anxiety.

“Winning the Klerman Prize is an incredible honor, and a reminder of the importance of the work to be done. More broadly, receiving support from BBRF has been instrumental in launching my career as an independent investigator and has facilitated my ability to push toward translating my basic scientific findings into potential new treatments for people with anxiety disorders.”

Scientist Spotlight with: Meaghan Creed, Ph.D.

2021 BBRF Freedman Prize for Exceptional Basic Research

2018 BBRF Young Investigator Award (YI)

Dr. Meaghan Creed seeks to optimize neuromodulation therapies for disorders of reward processing, specifically for affective symptoms of chronic pain and substance use disorders. Deep brain stimulation (DBS) is a surgical therapy whereby current is passed through electrodes implanted into specific brain nuclei. While the indications for DBS are expanding, the mechanisms by which DBS induces its effects in the context of affective symptoms are not well understood at the cellular, synaptic, or circuit levels, making it difficult to optimize.

WHAT IS THE CURRENT STATE OF YOUR BBRF-FUNDED RESEARCH?

We seek to leverage insight from optogenetic circuit dissection studies to understand how basal ganglia circuit function is altered by the comorbid experience of chronic pain and addictive substances, then to apply cell-type specific pharmacology and electrophysiology to rationally design neuromodulation protocols that can alter circuit function to normalize symptoms of impaired reward processing. Our published work has characterized the role of non-canonical ventral pallidal neurons in reward seeking.

HOW DO YOUR INTERACTIONS WITH PEOPLE LIVING WITH MENTAL ILLNESS AFFECT YOUR RESEARCH AND VICE-VERSA?

During my doctoral training, I worked at the Centre for Addiction and Mental Health in Toronto, at a site where the primary activity was inpatient and outpatient treatment for substance use and mood disorders. The continuous first-hand patient interactions during my early research years was really powerful and instilled the importance of doing research that may meaningfully improve treatment outcomes, with goals that patients would support.

"It's an honor and incredibly humbling to be selected for this award, particularly from this impressive cohort of BBRF Young Investigators. Support from my BBRF grant has allowed our lab to reach out in a completely new technical direction. It's my goal to help develop neuromodulation protocols to increase treatment options for patients and to develop an improved understanding of the neurobiology underlying specific symptoms, which may help predict and optimize patient responses to different therapeutic strategies."

WHAT HAS BBRF SUPPORT MEANT TO YOUR CAREER?

Having support from the BBRF has given us the flexibility and resources to directly tackle one of the more high-risk, potentially high-reward steps toward this goal that would not have been possible otherwise.

IN THE BEST POSSIBLE SCENARIO, HOW WOULD YOUR WORK IMPACT THE PEOPLE LIVING WITH MENTAL ILLNESS AND THEIR FAMILIES?

In the best possible scenario, my work would provide a strategy that could be used to bridge the gap between our rapidly growing understanding of the neural circuit mechanisms underlying specific symptoms of chronic pain, mood and substance use disorders and tangible neuromodulation therapies for these disorders. Developing neuromodulation protocols to treat symptoms of these disorders would increase treatment options for patients, while an improved understanding of the neurobiology underlying specific symptoms may help predict and optimize patient responses to different therapeutic strategies.



STRIVING TOWARD CURES THROUGH RESEARCH

2021 INTERNATIONAL MENTAL HEALTH RESEARCH VIRTUAL SYMPOSIUM

For the past thirty years BBRF has held our Symposium as a live event in New York City. Once again in 2021 because of COVID-19 we held our symposium virtually which allowed event attendance by a much broader audience.

This year's program was reflective of the greatly accelerating pace of discovery in mental health research as well as the expanded range of studies the Brain & Behavior Research Foundation has grown to support.

The nine Brain & Behavior Research Foundation 2021 Outstanding Achievement Award winners shared new breakthroughs and insights on autism, depression, schizophrenia, bipolar disorder, and childhood psychiatric disorders, as well as cognitive neuroscience.

An overview of the entire Symposium was provided by Dr. Robert Hirschfeld, a BBRF Scientific Council member who has served as the moderator at the in-person Symposium since its inception more than 30 years ago.

The BBRF Outstanding Achievement Prizes acknowledge and celebrate the power and importance of neuroscience and psychiatric research in transforming the lives of people living with mental illness.

The symposium is available to watch on the BBRF You Tube channel:

<https://www.youtube.com/c/BBRFoundation/playlists>

Presentations included:

A Life in Moods

Kay Redfield Jamison, Ph.D.

The Johns Hopkins Hospital

PRIZEWINNER, BBRF PARDES

HUMANITARIAN PRIZE IN MENTAL HEALTH

Making Friends With My Schizophrenia: A Lifelong Project

Elyn R. Saks, J.D., Ph.D.

University of Southern California

Gould Law School

PRIZEWINNER, BBRF PARDES

HUMANITARIAN PRIZE IN MENTAL HEALTH

Experts by Experience — Transforming Mental Health Worldwide

Charlene Sunkel

Founder/CEO, Global Mental Health

Peer Network

PRIZEWINNER, BBRF PARDES

HUMANITARIAN PRIZE IN MENTAL HEALTH

Luck, Chance, & a Cross- Cultural Exchange Between Psychiatry in the U.S. and China

John M. Davis, M.D.

University of Illinois at Chicago

HONORARY PRIZEWINNER, BBRF PARDES

HUMANITARIAN PRIZE IN MENTAL HEALTH

Assessing Cognition in Older, Undereducated Individuals with Schizophrenia in China

Michael R. Phillips, M.D., MPH

Shanghai Mental Health Center

HONORARY PRIZEWINNER, BBRF PARDES

HUMANITARIAN PRIZE IN MENTAL HEALTH

Responding to Major Problems in the Field of Mental Health

Norman Sartorius, M.D., Ph.D., FRCPsych

NYU Grossman School of Medicine
HONORARY PRIZEWINNER, BBRF PARDES HUMANITARIAN PRIZE IN MENTAL HEALTH

Living with Schizophrenia During the Covid-19 Pandemic

Ezra S. Susser, M.D., Dr.PH

Columbia University, New York State Psychiatric Institute
BBRF LIEBER PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN SCHIZOPHRENIA RESEARCH

Global Mental Health and Stigma: Advancing Science by Reaching the Most Vulnerable Groups with Psychosis

Lawrence H. Yang, Ph.D.

School of Global Public Health, New York University
BBRF MALTZ PRIZEWINNER FOR INNOVATIVE AND PROMISING SCHIZOPHRENIA RESEARCH

Cognitive Impairment and Functional Disability in Bipolar Disorder — How Can We Optimize Outcomes?

Katherine E. Burdick, Ph.D.

Brigham and Women's Hospital Harvard Medical School
BBRF COLVIN PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN MOOD DISORDERS RESEARCH

Neuropeptide Y in Normal Brain Function and in Mood Disorders

Aleksander Mathé, M.D., Ph.D.

Karolinska Institute
BBRF COLVIN PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN MOOD DISORDERS RESEARCH

Circadian Genes, Rhythms, and the Biology of Bipolar Disorder

Colleen McClung, Ph.D.

University of Pittsburgh School of Medicine
BBRF COLVIN PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN MOOD DISORDERS RESEARCH

The Development, Consequences, and Prevention of a Defensive Mindset

Kenneth A. Dodge, Ph.D.

Duke University
BBRF RUANE PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN CHILD & ADOLESCENT PSYCHIATRIC RESEARCH

From Clinical Trials to Population Health: Closing the Mental Health Gap and Meeting the Needs of Children and Families

John T. Walkup, M.D.

Ann and Robert H. Lurie Children's Hospital of Chicago
Northwestern University Feinberg School of Medicine
Johns Hopkins University
BBRF RUANE PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN CHILD & ADOLESCENT PSYCHIATRIC RESEARCH

From Knowledge to Action: Roles of the Primate Prefrontal Cortex

Elisabeth A. Murray, Ph.D.

National Institute of Mental Health
BBRF GOLDMAN-RAKIC PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN COGNITIVE NEUROSCIENCE

Preconfigured Dynamics in Our Brains

György Buzsáki, M.D., Ph.D.

New York University
BBRF GOLDMAN-RAKIC PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN COGNITIVE NEUROSCIENCE

We would also like to thank our 2021 Sponsors.

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The Pardes Humanitarian Prize in Mental Health

Bestowed annually since 2014, the Pardes Prize recognizes a person(s) or organization whose humanitarian work is transformative and of great magnitude, changing the lives and bringing the joy of living to those facing challenges to mental health.

It was established to honor those who comprehensively care, teach, investigate, work, and passionately advocate for improving the mental health of society and have had a powerful impact on reducing the pain inflicted by psychiatric illness.

The recipient of the Pardes Humanitarian Prize in Mental Health is chosen by a distinguished international Selection Committee from nominations solicited worldwide. The Prize focuses public attention on the burden of mental illness on individuals and on society, and the urgent need to expand and enhance mental health services in the United States and globally.

The Pardes Humanitarian Prize is named in honor of Dr. Herbert Pardes, the first recipient of the award.

The 2021 winners are:



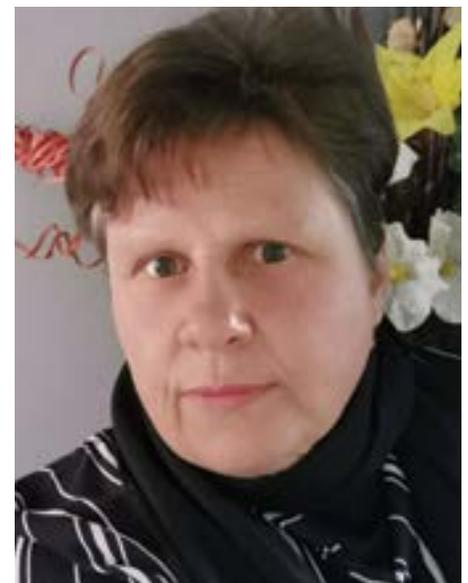
Kay Redfield Jamison, Ph.D.

For her profound contribution to mental health awareness as an advocate drawing on her own struggles with bipolar disorder.



Elyn R. Saks, J.D., Ph.D.

For her pioneering work as both a therapist and legal advocate for the mentally ill while living with schizophrenia.



Charlene Sunkel

For helping to empower other people who live with mental health problems.



Three 2021 Pardes Honorary Prize Recipients were also announced and acknowledged for their groundbreaking work in mental health. They are:



John M. Davis, M.D.



Michael R. Phillips, M.D., MPH



**Norman Sartorius, M.D.,
Ph.D., FRCPsych**

PREVIOUS PRIZE WINNERS

2020

Myrna M. Weissman, Ph.D.
& Sir Michael Rutter, FRS

Honorary Tribute:
E. Fuller Torrey, M.D.

2019

William T. Carpenter, Jr., M.D.

Honorary Tribute:
Cynthia Germanotta &
Born This Way Foundation

2018

Judge Steven Leifman

Honorary Tribute:
Suzanne and Bob Wright

2017

Doctors Without Borders/
Médecins Sans Frontières

Honorary Tribute:
Constance E. Lieber

2016

Vikram Patel, Ph.D., F.Med.Sci. &
Charles F. Reynolds, III, M.D.

Honorary Tribute:
Senator Edward M. Kennedy

2015

Beatrix (Betty) A. Hamburg, M.D.
and David A. Hamburg, M.D.

Honorary Tribute:
Rosalynn Carter

2014

Herbert Pardes, M.D.

In 2021 the Pardes Humanitarian Prize in Mental Health was sponsored in part by Janssen Research & Development, LLC, one of the Janssen Pharmaceutical Companies of Johnson & Johnson.

Meet the Scientist Webinar Series

Dr. Jeffrey Borenstein hosts the free monthly “Meet the Scientist” webinar series where leading brain and behavior researchers discuss their current work on the latest in new technologies, early intervention strategies and next-generation therapies for mental illness. Each hour-long webinar includes time for researchers to answer questions posed by the online participants. This popular series offers the public access to some of the world’s top scientists who discuss their cutting-edge research.

All webinars are available for viewing on the BBRF website.



ADHD: Controversy, Key Research Findings, Rising Prevalence, and Promise

Tuesday, January 12, 2021

Stephen P. Hinshaw, Ph.D.

University of California, Berkeley; University of California, San Francisco



Cognitive Impairment in Psychosis: What It Is and How It's Treated

Tuesday, July 13, 2021

Amanda McCleery, Ph.D.

The University of Iowa



How Brain Circuits Function in Health and Disease: Understanding Brain-wide Current Flow

Tuesday, February 9, 2021

Kanaka Rajan, Ph.D.

Icahn School of Medicine at Mount Sinai



Self-Control Gone Awry: The Cognitive Neuroscience Behind Bulimia Nervosa

Tuesday, August 10, 2021

Laura Berner, Ph.D.

Icahn School of Medicine at Mount Sinai



Sensory Challenges and Anxiety in Children with and without Autism

Tuesday, March 9, 2021

Kimberly Carpenter, Ph.D.

Duke University School of Medicine



PTSD: Identifying Risk and Current and Future Interventions

Tuesday, September 14, 2021

Victoria B. Risbrough, Ph.D.

Professor in Residence, Department of Psychiatry, University of California, San Diego



Addiction: Science Drives New & Novel Treatments

Tuesday, April 13, 2021

Yasmin Hurd, Ph.D.

Icahn School of Medicine at Mount Sinai



Early-Life Risk for Pathological Anxiety

Tuesday, October 12, 2021

Ned H. Kalin, M.D.

Hedberg Professor and Chairman, Department of Psychiatry, University of Wisconsin



Using Rapid-Acting Brain Stimulation for Treatment-Resistant Depression

Tuesday, May 11, 2021

Nolan R. Williams, M.D.

Stanford University Medical Center



Developing New Treatments for Mania Using Brain-Based Risk Markers

Tuesday, November 9, 2021

Mary L. Phillips, M.D.

Professor in Psychiatry and Clinical and Translational Science, University of Pittsburgh School of Medicine



What We Are Learning About Brain Biology and Borderline Personality Disorder

Tuesday, June 8, 2021

Anthony C. Ruocco, Ph.D., C.Psych

University of Toronto



OCD: Using Genome Data to Predict Risk, Symptoms and Treatment Response

Tuesday, December 14, 2021

Gwyneth Zai, M.D., FRCP(C), Ph.D.

Assistant Professor, Division of Brain & Therapeutics, Department of Psychiatry, University of Toronto

Healthy Minds

With Dr. Jeffrey Borenstein



Living With Bipolar:
A Conversation With Maurice Benard

“One in five people is affected by a mental illness, and we are seeing increases in depression and anxiety during these unsettling times. The goal of Healthy Minds is to inspire conversations about mental illness, provide understandable information and resources for viewers, and demonstrate that with help, there is hope.”

– Dr. Jeffrey Borenstein

Healthy Minds with Dr. Jeffrey Borenstein aims to remove the stigma of mental illness and demonstrate that with help, there is hope. The series features inspiring personal stories from people who have experienced mental health issues, as well as the latest information from experts on new approaches to the diagnosis, treatment, and prevention of mental illness.

“Healthy Minds” is available on PBS stations around the U.S. and online at PBS.org.

Here’s the link: <https://www.pbs.org/show/healthy-minds-with-dr-jeffrey-borenstein/>

Previous seasons can be found online at: www.bbrfoundation.org/healthyminds-tv

The Emmy nominated series is produced by the Brain & Behavior Research Foundation, presented by Connecticut Public Television (CPTV), and distributed by the National Educational Telecommunications Association (NETA). Funding is provided by the American Psychiatric Association Foundation, the Bank of America Charitable Gift Fund, and the John & Polly Sparks Foundation.



In 2019, the **Moritz Hilder Innovative Brain Research Fund** was established by the Trustee of the Jane Hilder Harris Trust with an endowment gift of \$3.5 million. It was created to preserve and honor the memory of Moritz Hilder, the father of the late Jane Hilder Harris.

This generous endowment will be held in perpetuity to advance medical research with the objective of gaining a basic understanding of post-traumatic stress disorder (PTSD) and its prevention, treatment and cure. Primary emphasis will be given to research involving innovative concepts where, although there may be a high risk of failure, the rewards of success would be substantial, and to researchers who typically would not be in a position to secure funding from more traditional funding sources.

The Moritz Hilder Innovative Brain Research Fund is held in a professionally managed, separate endowment fund. On an annual basis, 5% of the endowment fund will be expended to support PTSD research. A special committee of the BBRF Scientific Council will select which BBRF Grants will be funded by this Endowment. In 2021, the Endowment provided \$190,000 for the first year of funding of six PTSD research projects.

We are deeply honored to have received this generous and impactful gift.

THANK YOU TO OUR DONORS

Your support this year enabled us to fund more than \$16 million to scientists looking for better treatments, cures, and methods of prevention for mental illness.

Since 1987, in partnership with you, our donors, BBRF has awarded more than \$430 million to fund more than 6,200 grants to more than 5,100 leading scientists around the world.

With your help BBRF has been able to foster new research pathways that will lead to transformative breakthroughs. We deeply appreciate your support and commitment to advance psychiatric research.



BENEFITS OF BECOMING A RESEARCH PARTNER

Barbara Toll

BBRF Board Member & Research Partner

Many BBRF donors have a very personal interest in brain and behavior research. They know from often difficult, first-hand experience the devastation mental illness can bring upon family and friends, and they know that research will ultimately bring about better understanding and treatments.

Our **Research Partners Program** offers donors the opportunity to personally select and support scientists based on various criteria, including, but not limited to, illness specialty area or specific institutions, or a combination of these. Researchers are selected by the donor (our Research Partner) after members of our all-volunteer Scientific Council have conducted an independent peer review of the submitted applications and have made their recommendations for grant awards.

The **Research Partners Program** enables donors to choose among the best and brightest scientists and the most promising, cutting-edge proposals in mental illness research.

The results from these studies often provide the pilot data needed to apply for much larger federally funded grants (from the National Institute of Mental Health and the N.I.H., for example).

To date the BBRF **Research Partners Program** has funded more than 1,500 research grants.

To learn more about the Research Partners Program, please contact us at **646-681-4889** or **researchpartner@bbrfoundation.org**.

Visit us at bbrfoundation.org/researchpartners.

Research Partners Program

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Aparna Bhaduri, Ph.D.

University of California, Los Angeles

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Centre for Addiction and Mental Health

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Radboud University

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Hong-yuan Chu, Ph.D.

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ANONYMOUS

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Megan A. Boudewyn, Ph.D.

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McLean Hospital

Harvard University

Young Investigator

Garrett A. Kaas, Ph.D.

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ANONYMOUS

Dana W. Investigator

Young Investigator

Stephanie L. Hickey, Ph.D.

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Research Foundation for Mental Hygiene,

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Drexel University College of Medicine

Young Investigator

Santhosh Girirajan, M.B.B.S., Ph.D.

Pennsylvania State University

Young Investigator

Markita Patricia Landry, Ph.D.

University of California, Berkeley

Independent Investigator

Kirsty Millar, Ph.D.

University of Edinburgh

Young Investigator

Jacqueline Morris, Ph.D.

University of Pennsylvania

Young Investigator

Marta Ribases, Ph.D.

Vall d'Hebron Research Institute VHIR

Young Investigator

Simon Trent, Ph.D.

Cardiff University

Distinguished Investigator

Claes Wahlestedt, M.D., Ph.D.

University of Miami

Young Investigator

Nan Yang, Ph.D.

Stanford University

Independent Investigator

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St. Jude Children's Research Hospital

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Families For Borderline Personality
Disorder Research Investigators

Young Investigator

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Chinese University of Hong Kong,

Hong Kong

Young Investigator

Lois W. Choi-Kain, M.D.

McLean Hospital

Young Investigator

Takashi Sato, Ph.D.

Medical University of South Carolina

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Galena-Yorktown Foundation
Investigators

Young Investigator

Danella Hafeman, M.D., Ph.D.

University of Pittsburgh

Research Partners Program

Young Investigator

Jessica M. Lipschitz, Ph.D.

*Brigham and Women's Hospital
Harvard University*

JUDY GENSHAFT & STEVEN GREENBAUM

Genshaft & Greenbaum Investigator

Young Investigator

Laura A. Berner, Ph.D.

Icahn School of Medicine at Mount Sinai

STEVEN, SALLY AND ISABEL GRIMES

Steven, Sally and Isabel Grimes
Investigators

Young Investigator

Juliet B. Edgcomb, M.D., Ph.D.

University of California, Los Angeles

Young Investigator

Niamh A. Mullins, Ph.D.

Icahn School of Medicine at Mount Sinai

JOHN KENNEDY HARRISON II

John Kennedy Harrison Investigator

Young Investigator

Rasmus Herlo, Ph.D.

Columbia University

ANONYMOUS

Havens Family Investigators

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State University of New York, Downstate

Young Investigator

Kristen Delevich, Ph.D.

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Young Investigator

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Young Investigator

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Anirban Paul, Ph.D.

Pennsylvania State University

Young Investigator

Karuna Subramaniam, Ph.D.

*University of California, San Francisco
The J. David Gladstone Institutes*

Young Investigator

Zachary Patrick Wills, Ph.D.

University of Pittsburgh

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Rosalie and Daniel Katz Family
Investigator

Young Investigator

Amy Peters, Ph.D.

*Massachusetts General Hospital
Harvard University*

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Young Investigator

Melody Atkins, Ph.D.

INSERM

Young Investigator

Pengfei Dong, Ph.D.

Icahn School of Medicine at Mount Sinai

Young Investigator

Jonathan Hess, Ph.D.

*The Research Foundation for the State
University of New York, Upstate Medical
University*

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Annie Kathuria, Ph.D.

*Massachusetts General Hospital
Harvard University*

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Madeleine Kyrke-Smith, Ph.D.

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Felix Raymond Leroy, Ph.D.

Universidad Miguel Hernández

Young Investigator

Ralda K. Nehme, Ph.D.

The Broad Institute of MIT and Harvard

Young Investigator

Tarjinder Singh, Ph.D.

*Massachusetts General Hospital
Harvard University*

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Maltz Investigators

Young Investigator

Antti S. Alaräisänen, M.D.

University of Oulu

Young Investigator

Stefan Ehrlich, M.D.

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Jeremy T. Addison
Michael Adelman
Michael Ainus
Bernard Alenick
Alicia Marie
All ASMR artists who help get rid of nightmares
All Researchers
Shirley Allen
Morgan Alleshouse
Jeffrey Alvins Scott Klain
Rezvan Ameli
AmeriHealth Caritas PA Ancillary Team
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The Levy's granddaughter, Esme,
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on her 18th Birthday
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Marla S. Press
Samantha Priebe
Lauren Proulx Conforti
Andrew Pruce
Josie Lynn Pruitt
PS
Umair Quazi
Romana Rajput
Jasmine Ralph
Rebecca Ramsey
Randy (The Rocket)
Hridya Rao
Phillip Rather
Ryan T. Rauscher
Kat Raveling
Susmita Rayamajhi
Reddit Secret Santa
Madeline Reed-Johnston
Katie Reis
Ruthie Ren
Thoraya Rey
Andy Reynolds
Terry Richards
Nathan Richardson
E.J. Richmond
Mike Rickert
Geoff Ridder
Brian Rinkowski, Jr.
Stephanie Riven and Roger Goldman
Devys Rivera
Min Jung Ro
Chelsea Robbins
Sean Roberts and Andrea L. Barsk
Emily Robertson
Casey Jeanette Robinson
Pamela K. Rocca
Kimberly A. Rock
Flavio F. Rodea
Alex Rodriguez, Jr.
Elizabeth Rodriguez
Meghan Rokita
Rolling Triplets in Farkle (dice game)
Robert Ronis, Ph.D.
Kenzie Rose
Melissa Rose
Myciah Rose
Mario and Linda Rossi
Dr. and Mrs. Richard Roth on celebrating 50 years of wedded bliss
Faith Rothblatt
Nancy Roylance
Gregg Rubin
Ueli Rutishauser, Ph.D.
Dan Ryckert
Nicole M. Ryziv
Patricia Rzasa-Blum
Jonathan S.
Muhammad Saadi
Sandra Sabatini, Psy.D., Ed.D.
Kirby Sack Properties, Inc. / Paul Sack Properties II, Inc.
Nick Saddig
Marak Salamon
Mark and Bridget Salce
Mary C. Salpukas
Jeffery M. Salisbury
Haleigh Elyzabeth M. Sanchez
Glory A. Sandberg, M.D.
Catherine (Candy) Santello Garcia
Sarah Ann
Mark Sather
Mark A. Satterthwaite, M.D.
Braden Sauer
Nancy Schaezlein-Zipse's beloved daughter
Michael Schemansky
Paula Schlesak Aiello
Kai and Malia Schmelzer
Stacey Schmidt
Pam Schroeder
Stacy Schulman-Riordan
Russell Scott
Dr. Benjamin S. Scruggs
Kit Seeds
Warren W. Sejud
Sema
Fulloa Severino
The Severs' beloved daughter
Kathy Shaughnessy Dudich
Susan Shedd
Jay Shetty
The sick and the suffering
Lilian Sicular
Claire Sigal
Silent Sufferers
Dr. and Mrs. Mark Silver
Geoffrey A. Simon and Andrea R. Graham
Joseph and Amanda Simon
Tyler Skye
Danielle S. Smiley
Alyssa Smith
Eddie Smith
Eugene Smith
Kyle Smith and family
Liv Smith
Richard and Sue Smith
The Reverends Toni Ruth and Wesley Smith
Kathryn A. Snow, LCSW
Bobbie Snyder
Mark Solomon
Jakob Solorio
Kerri D. South and Courtney D. Goeltzenleuchter
Alan J. Spandorf
Kathryn (Kay) D. Speckman
Robert A. Spigler
Kelda J. Spreiregen
Dawn Spunzo
Olivia Stafford
Tita Stafford
Andreea M. Stanica
David J. Starck
Marianda Stasinopoulou
Lynne Stein, M.D.
Johanna Steinmetz-Cummings
Ranjana Sterling
Eve Stern
Ryan A. Stern
Ila Steving
Leslie Stewart-Hood
Dr. Abby MacCauley and Mr. Christopher Stocks
Jean L. Stone
Gregory Strauss, Ph.D.
Meg Strelow
Frank Strootbandt
Kaitlyn Rose Strobe
Malina Suity's co-worker and Charity Secret Santa
Mary Summers
Lorenzo C. Supino
Peter J. Tarr, Ph.D.
Debra L. Tebrich
Jack and Holly Teitsma

Honor Tributes (continued)

Ten At A Time
William Theos
James C. Thies
Jamie Thomae
Sarah Thomas
Tory Thomas
Barry Thomasson
Nichole Threadgill
Kristen Tibbs
Stacy Tison
Kirin Tiwary
Bosworth M. Todd, Jr.
Susan Tompkins
Una Torbika
Linda M. Tortorice
Feliz Tovar
Nazir Trapp
Amy Trappey
Sophia K. Treantafeles
Tina Turnbull
John Tyler and Caroline Kelly
Melody Udell
Martin Ureel
Lisa Uriell
Jenna Vandenberg
Amy VanderZanden
Barbara Venendaal Yosses
Jacobella Venezia Luongo
Luanne Venney Mazzioni
Jessica L. Vera
Deandra Vetter
Vijayaellemma
Michael Vinson-Elliott
Jillian Vocke
Carl Vogtsberger
Michael Vollmar, M.D.
The Kind folks of the
W.W. Patreon Server
Julia Clare Wagner
Katherine (Katie) L. Wagner
Alex Walsh
Bethany Walters
Joice Wang
Jen Ward
Jennifer Ward
Maci Ward
Melissa E. Ware
Kellie Warfield
Jordyn M. Warrington
Darrell Weakland
Sarah Weber Mol
Rod Wedemeier
Dr. Jodi Weinstein
Madelyn Weirich

Robert and Frances Weisman
Myrna M. Weissman, Ph.D. and
James C. Frauenthal, Ph.D.
Kelsey Welk
Connie Weller
Nicholas Wells
Rodney Wells and family
Heather Nicole Wenning
Linda Wester
Christopher Whalen
Matthew R. Wheeler
Mr. and Mrs. R. Graham White III
Perry White
Drew A. White-Jacobson
R. Todd Wickliffe
Brooke Wilken
Brooke Wilkin
Daniel A. Will
Christian Willenbacher
William
Aaron Williams
Garrett R. Williams
Lacey Williams
Sarah Williams
Wendy L. Wilson
The Veteran members of the
WLA VA MHICM program
Mike Wolf
Ashley Woodson Bailey
Alexander Wrede
Jeff and Leslie Wright
Cherie D. Wrigley
Dorothy J. Wysack
Mike Yamanaka
Allison Yee
Ann Jung Yi
Tracie Yonkman
Shonda York-Nelson
Amber Young
Coleman Young
Eleanor Zarski
Ashley Zartman
Molly Zaslow
Alex Zeigler
Levi Zelanko
Yumei Zhang
Qiqi Zheng
Michelle Zielinski
Craig Zuckerman
Alexandra Zuk

Memorial Tributes

A loved one
Kathy Abaray
Randy L. Abbott

John (Jed) B. Abrams
Mary M. Abrams
Patricia Acardi
Elizabeth Adams-Addorio
Florie Adiutori
Max Agrest
Helga Aktipis
Gladys M. Albright-Fisher
Anne Alexander-Pedersen
All Native Youth who have died
by suicide
Janice M. Allison
Che Alvarado
Jose F. Amaya
Marzieh Ameli
Muhammad A. Ameli
Vincent S. Amoroso, Jr.
Shirley A. Anderson's twin sister, Sharon
Susan (Sue) K. Anderson
Geraldine (Jeri) Antle-Adams
Martin H. Armel
Annie B. Armstrong
Willis F. Armstrong III
Timothy W. Arnold
Albert R. Arroyo
Edward Arvey
Laura Ascolese
Helen Asher
Allan G. Atherton, Jr.
John Atterberry
Dahl L. Atterbury
John (Les) L. Austin
David Ayres
Michelle B.
Randy Bacchus III
Jimmy Bailey
John D. Bailey, Sr.
Gregory T. Bak
Eileen Baldwin
Anna Balek
Scott Balgemann
Lloyd A. Ballard
Patricia A. Ballard
Cynthia L. Barazowski-Kassel
Neil Gregory (The Warrior) Barber
Elizabeth (Betty) Bardsley
Colin M. Barkley
Margaret Barnes-Rehman
Brandon L. Barnhouse
Dorothy G. Barraclough
Terrence Barraclough
Robert J. Barrett
Richard A. Bartlett
Scott R. Bartlett
Andrew (Buddy) Barz Wiedemann

Memorial Tributes (continued)

Judith A. Baskin
Shale Baskin
Brian A. Bass
Dr. Michael J. Bauer
Ida Baum
Michael T. Baumgardner
Robert Baxa
Tyler J. Becker
Margaret Beebe-Nuckols
Laurent Beeftink
Barbara J. Beier
Laura Beitler
Alex (AJ) J. Belshe
Richard Benabio, Jr.
Brian J. Bengston
Patricia A. Benning
Beverly Berg
Dr. Nicola Berlato's beloved friends
Jamie Bernard
David S. Berry
Becki Bettencourt
Brian A. Bezonsky
Kevin M. Bezonsky
Kalyan Bhandari
Deepak Bhasin
Lee A. Billman
Stephen J. Binder
Dr. Morton Black
Neil C. Blanchette
Joyce Blomker
Carl P. Bloom
Susan K. Blume-Babcock
Howard T. Boasberg, Jr.
Kirk D. Boise
Brad Bolding
Bradley (Brad) H. Bolding
Oliver R. Bolger
Aidan J. Bone
Antoni (AJ) J. Bonnell
Doreen L. Bonney
Amy J. Boone
David W. Borks
Paula Bourque
Steve Bowers
Steven M. Boylson
Sean Brady
Robert Branch
Andre Brassard
Christopher D. Brehl
David Breuer
Hans Breuer
Catherine (Cathie) A. Brodie
Rose Bromberg
Joseph F. Bronge III
John W. Brooke
Daniel S. Brown
Bruce Brownlee
William Bryan, Jr.
Donald A. Budzinski, Sr.
Kevin M. Buente
Anna L. Bulgari
Walter W. Bundschuh
Peter R. Bunning
Patricia A. Burdeshaw
Andrew P. Burke
Colleen M. Burke
Matthew (Jim) J. Burns
Kathryn P. Burrell
Patrick T. Butters
Michael J. Caeton
Patrick M. Caires
Jesusita (Susie) Calderon
Brendan J. Calvey
Oscar Canavan
Israel A. Caraballo, Sr.
Robert Carcioppolo
Curtis A. Cardwell
Joyce Carter
Suzanne L. Castellani
Peter Castro
Donna J. Caulfield
Lorraine Cavallaro
Noreen Charters
Tavon M. Chelvarajan
Cheryl
Thomas D. Childers
Isabel Chin
Allison A. Chlan-Fellner
Eric H. Choi
Siddharth Choudhry
Marley Chudnow
Patrick O. Clancy
Laura Clapp
Ruth G. Clark
Jenna Clemenz
Mark A. Cochran
Patrick Coffey
Akilah (KiKi) B. Coleman
Lynn Conaway
Alexander B. Conley
Gerald (Jerry) J. Connolly, Sr.
Victor E. Conover
Dr. Paul A. Constantine
K. Wade Cook
Ryan J. Cook
Grace Cook-Blasingame
David M. Cooke
Joanne Coons
David Cooper-Claire
Joseph C. Cotter
Christopher M. Cowan
Justin Cox
Joseph (Joe) P. Creech
Brenda G. Crenshaw
Jonathan Culverwell
Benjamin (Ben) A. Cunningham
Noreen Cunningham
Joan (Joanie) M. Curtin
Thomas Dabrowski, Jr.
Lance M. D'Alessio
Colter Dallman
Richard D. Daly
Daniela
Dave
Terrence (King Terry) A. Davis
Janice E. Day-Britton
Jacopo De Moro
A. Louise DeAngelis
Dr. Margarida M. Dederick
Mary M. Deely
Gaspere (Gary) R. DeGaetano
Daniel Deichmann
Angela DeMartino
Arvilla Denning
Janice E. Denning
Medha S. Deo
Katherine Deschner
Henry (Hank) J. Deutschendorf II
Steven Deutschman
Jack V. Devereaux, Jr.
Emmy Dickey
Nathaniel J. Dickinson
Adam M. Dickler
Harrison Diesel
Emily DiFlorio
Robert D'Innocenzio
Kenneth Ditzel
Brandon Dixon
Jonathan E. Dixon
Nicholas (Nick) A. Dobbert
Ilya N. Dolce
Cecile Dollison
Gavin J. Domm
Donna
Una G. Donnelly
Murray W. Dorin
Eric T. Dorris
August (Gus) E. Doskey
Fae Dougan
Rachel L. Drabenstott
Grant Dreier

Memorial Tributes (continued)

Lester P. Dreyfuss
Deanne Drietz
Mike Driver
Lorraine (Lory) Dryden
Michael Duffy
Christopher R. Dugan
Ronald S. Duman, Ph.D.
Laura D. Duncan
June E. Dupré
Robert Duran
Jonathan L. Dworkin
Ronald P. Dyer
Ronald (Ronnie) O. Edwards
Suzhanna M. Elam, M.D.
Ivan Elder
Karl J. Emerick Jr.
Marie A. Enderley
Mary Entwistle- Libby
Jason Ericksen
Joseph Erickson-Goldsmith
Raul Escobar-Fernandez
Paul J. Esposito
Judith K. Esse
Catherine (Catie) A. Etier
Justin B. Evarian
Marian (Molly) P. Everdell
Brian (Whitey) S. Evers
Margaret Ewald
Dr. Serge Eytan
Benjamin C. Faetanini
John E. Fahrnbruch
Mary Ellen Falk
Leslie E. Falzone
Donnesh Farmanfarmian
Garrett R. Farr
Ann Feder
Seymour Feinland
Charles H. Feldman
Elliot Feldman
James (Alec) A. Fentum
Anthony Ferrero-Rankin
Jeremy C. Finch
Marla Fine-Feinstein
Catherine Finn
Christina (Chrissy) R. Fischer
Carrie F. Fisher
Jonah H. Fite
Michael K. Fitzgerald
Raymond J. Flood, Jr.
Jamie Flory
Helen C. Fontana
Jessica A. Forbes
Geoffrey L. Foster

Maryann Fougere
Jacob J. Fox
Jonathan Fox
Matthew T. Fox
Danny Frawley
Henrietta Freedman
Rudolph Freedman
Gail W. French
Freud
Harvey Friedenber
Benjamin M. Friedland
Jason C. Frisco
Eric A. Fritts
Clarence Fritz
Ruth (Schy) Scheible Funderburk
Christopher Furay
John A. Gahr, Jr.
Brian Gallagher
Austin Y. Gann
Sean Gardner
Joan M. Gargani
Gregory D. Garson
Benjamin E. Gast
Andrei W. Gauger
Lawrence (Larry) Gaughan
Denise A. Gehrt
Nancy Geller
Quinn Gens
John (Doug) D. Glenn
Richard (Dick) T. Glenn
Daniel J. Glorioso
Brian D. Go
Shirley Gold
Elena Goldberg
Herman Goldblatt
Morton (Mort) Goldfield
Susie Goldsmith's beloved nephew
Joseph C. Gonzalez
Ethel G. Gordon
Ted A. Gorman
Dr. Irving I. Gottesman
Ellen Gottfried
Adam J. Grainawi
Annie Granger
Carolyn Grant
John Grant
William F. Grant 1st and 2nd
Bob Gray
Linda F. Graybeal
Eleanor Gray-Hankins
Rose K. Greenberg
Mark J. Greenlee
Laura T. Gregory
Matthew J. Gregory

Vincent (Vincenzo) J. Grimaldi
Noah J. Grimes
Suzanne R. Guerra
Annie Guillory
Amanda G. Gurley
Iris L. Gushiken
Charles (Charlie) W. Haeger
Dana A. Hafertepen
Darren Hagen
John B. Haldeman
Nicholas Hall
Stephen B. Ham
Kelly R. Hamers
Christopher M. Hamilton
Stanley (Troy) T. Hamlin
Henry (Hank) Hanau
Peter J. Hanna
Lucille Hannon
Matthew J. Hardin
Jason R. Hargarten
Maxwell R. Harmon
Margaret Harrington
Ellen E. Harris's beloved father
Jordan E. Harris
Lindsay L. Harris
Gary E. Hart
Rhonda C. Hart
Victoria L. Hart
Dr. S. Ann Hartlage Feltes
Nancy A. Hartman
Cynthia (Cindy) M. Harwell-Paar
William M. Hashimoto
Sarah Bell-Hawkins
Ronald Hayes
Timothy Hayes
Michael Heafield
Kevin J. Heald
Dianne E. Heckathorn
Bradley R. Heilman
Phyllis Held
Scott L. Helt
Beverly A. Hennigar
Justin D. Hensley
Justin Hensley
Michael K. Herman
Thomas (Tom) J. Hermsen
Debbie L. Hess
Grover Heyler
Brian D. Hill
Anthony Hillman
Arthur W. Hills
Daniel G. Hinden
Mollie L. Hintze
Jill Hirshberg

Memorial Tributes (continued)

John R. Hoelzel, Sr.
Dr. Carol A. Hogan
Jack Holden
Joel M. Holfarty
Zackry H. Holland
Mark Hollander
Michael Hollyday
Corinne H. Holt
Bert Holtje
Dr. Philip S. Holzman
Sheldon K. Hooper
Mark C. Hoover
Diane Horner
George C.B. Hosley
Jacob Howes
John D. Huberty
Rennie E. Hughes
Ben Hughlett
Gregory J. Humes
William (Billy) W. Humphrey
Alan N. Hundert
Stephen J. Imarata
Naveed A. Iqbal
Jane Irwin-Malinoff
J.K.L.
Vivian B. Jackson
Lea E. Jacobs
DJ Jaffe
Farrokh Jahandari
Prem Jajoo
Fred James
Sabrina I. James
Nancy M. Jeffords-Goselin
Thomas Jeffrey
Alexander D. Johnson
Arthur C. Johnson III
Ernest (Ernie) B. Johnson
Glenn Johnson
Hannah Johnson
Justin Johnson
Michael D. Johnson
Ryan P. Johnson
Scott A. Johnson
Maryann Johnston
Malcolm Jones
Nathan M. Joy
Andreas (Dre) P. Kahan
Joyce I. Kalman
Anthony A. Kamanes
Leif Kamara
Sean B. Kamp
Cheryl A. Kane
Richard (Richie) J. Kane, Jr.
Robert J. Kannenberg
Albert W. Kaplan
Anna Karam
Steven M. Karp
Claude R. Kaufman
Jaswinder Kaur
Ram Kaur
Peter Kay
Fred J. Keen
Jonathan Kellert
William G. Kelly III
Carolyn E. Kendall
Michael F. Kenigsberg
Corinne M. Kennedy
Frances (Hazel) Kennedy
Sarah Ketchum-Bradley
Kevin
Harry Keyzer
Rashidul H. Khan-Shiply
Paul Killea
Charles C. Kimbro
Doris Kimbro
Stephani L. King-Chapman
Denise Kinlaw
Robert Kinn
Jonathan S. Kinsley
Jill A. Kirby
Trevor Kirchoff's beloved brother
Eva Klahr
Robert Klahr
Elly Klamo
Emmi Kleeman
Alvin H. Kling
Doris M. Knapp
Alexandra B. Knöppel
Diana Knowlen
Allison (Alli) S. Kohl
Peter C. Kohn
Richard L. Komray
Arty Kononchik
Brennan M. Kornak
Diane A. Koskinas
John B. Kramer, Jr.
Mark Kramer
Patrick H. Krause
Robert (Bob) F. Krebs
Joseph J. Kroepil, Jr.
Michael Krusell Nelson
Kendal (Ken) A. Kucera
Murry Kusmin
Victor M. LaFata
Stephanie Lambert's beloved son
Berenice Lancis
Gloria G. Landon
Lina M. Lanza
Carole Jean Laping
Mary Ann Lapinskas
Noah Larkin-New
Scott Larsen
Garrett Larson
Arlene M. Lasneski
Charlene Lat
Jenna R. Laubach
Brendan L. Lauderdale
Robert E. Lauer
Justin A. LaVenter
Megan Lavin
Jerome (Jerry) C. Lawrence
Emilia Lazar
LCB
Jeanne M. Lee
Robert Lennon
Meagan L. Leonard
Allison Leong
Alex Levich, Sr.
Noah D. Levin
Michael S. Levine
Ally Levy's beloved granddaughter
Dr. Eric A. Lewis
Scott A. Lewis
Jacob Lichtenstein
Constance E. Lieber
Samuel A. Lieber
Stephen A. Lieber
Darren J. Liess
Donald A. Liess
Jason N. Lighthall
Chris Lightning
Gail Liker
Royce (Tres) D. Lillard III
Hans K. Lindgren
Calvin (Cal) J. Lippitt
Michael J. Lippitt
Roberta Lippitt
Richard E. Little
Lauren G. Liu
Robert G. Livingston, Jr.
Frank J. Lodanosky
John (Jack) S. Logue II
John D. Lopes
Danielle M. Lorenz
Zack Lorenz
Victor G. Lottmann
Basil L. Loudas
Joanna Lowry
Thomas A. Luby, Jr.
Michael Lucente
Heather A. Luedee-McNamee

Memorial Tributes (continued)

John Lukanitsch
Alfred J. Lundgren
Mary Lou Lunney
Mariah Lynch
Barbara Lyons
Matthew A. Lyons
Matthew C. Lyons
Corby Lyons-O'Connor
John Macaluso
Noel A. Machado
Camille R. Mackey
Marissa N. MacLaughlin
Fern L. Mahan
Roman Makuch
Eileen M. Malaspina
Robert T. Malison, M.D.
Merrill M. Manning III
Kamlesh Manocha
Alan G. Marer
Marcella (Marcie) R. Margel
Ella Marino
Frank Marino
Kathleen A. Marnock
Aaron R. Marriott
Matthew Marshall
Jessica Martin
Robbie Martin
Robert (Bob) W. Martin
Nicolás Martinez
Nora Martinez
Elizabeth Martino
Erica A. Martoni
Jean L. Mason
A.R. Massah
Marc Massery
Dave Mateo
Michael D. Mattoon
Thomas Matye
Travis Matye
Stephen Maxsted
John K. Maxwell, Jr.
Dennis P. McAward
Kevin P. McAward
Devin McCafferty-Long
Erik J. McCarthy
Michael P. McClain
Lynne McClure, Ph.D.
Skye McCole-Bartusiak
Mindy McConnell
Tracie McDavid
Dr. Duncan McDonald
Sean McGarvey
Elmer (Mac) H. McGilvray
Brian McGlinn
John D. McGrath
John R. McLain, D.C.
Victor P. Medellin-Sterling
Liam A. Meechan
Ralph Melenson
Christopher D. Melko
Daniel Melone
Elisabeth Z. Meyers
Daniel Michaels
Jeffrey A. Michalski
Apphia Michelich
Ronald Michelich
Ruth Michelich
Christopher F. Miehlisch
Kelly Miller
Lucille (Lucy) A. Miller
Lori Miller-Levine
Samuel H. Mintz-Straus
Keith Mirailh
Duncan N. Mitchell
Jeanette Mogor
Neil Molberger
John Monaco, Jr.
Gregory A. Monk
Juan (Joji) Maniquis Montelibano
Jeffrey D. Moon
Evan S. Moore
Jesse M. Moore
Linda Moore's beloved nephew
Richard A. Moore
Jonathan (Jake) J. Moran
Matthew P. Morgan
Mary V. Mortelette
Ellen Mosher
Rick Mosher
Stephen Mossman
Richard D. Moszkowski
Patrick R. Muldoon
Kevin B. Mulhall
Ronald P. Mullan
Barbara J. Mullen
Suzanne J. Mulligan
(Suzie or Grandma Joe)
Marguerite Mullis
Wyatt L. Murchison
Lisa (Tish) P. Murphy
Charles L. Murray, Jr.
Dianne Murray
Lynn Murray
Eleanor T. Myrato
Eva M. Naiman
John Naiman
Shruti Narang
Near
Adam Neely
Jonathan Nelson
Michael K. Nelson
Paul Nelson
Paul I. Nelson
Debjani Neogi
Kirk D. Newell
Douglas A. Newman
Shemal Nezhadian
Kathleen Noakes
Mary C. Noble
Kerry Normandy-Dolberg
Gary North
Rev. Virginia (Ginny) Norton-Herring
Hubert Nutt
Andrew F. O'Connor
Kelley O'Connor
Dr. Herbert Kazuto Oie
Kerry E. Olivier
Dr. Mary (Kathy) K. O'Loughlin
Solomon O'Lunigh
Frances O'Neill
Randall Oppenheimer
Mitchell Orłowski
Matthew Ornstein
Cameron R. Orr
Lucille Owen
Ken Packard
Rosa Y. Padilla-Seville
Barbara W. Page
Stephen M. Pappas
Pete Pasquale
Karen N. Patel
James Patterson
Joseph (Joey) E. Pearlman
Arthur Peck, M.D.
Samantha (Sam) Saint Aubyn
Peluso-Swartzlander
James Peralta
Lewis (Lou) E. Perdue
Michael J. Perotto
David J. Persik
Gregory S. Persik
Seymour Pestronk
Cole Peterson
William Brodie Phillips
Kimberly C. Phillips-McQueen
Sybil Pierce
Jessica A. Piesman
Piglet
Helen Polisená
Robert M. Pollack
Violet Pool

Memorial Tributes (continued)

Dr. Alex Porter
Catherine (Cathy) D. Potter
George C. Powell, Sr.
Rosemarie T. Princiotta
Harold Pruett
Wilma J. Quade
Dylan Quast
Fiza Quraishi
Ramez E. Qureshi
Marcia L. Rackley
Arthur J. Radin, C.P.A.
Matthew R. Radula
Evelyn R. Rafferty
James Rafferty
Hotan Rafiee
J.T. Ragg
Sean Raidley
Lisa M. Raimondo-Nowell
Sidharth Ramakrishnan
Emerald Randolph
Brendan (Kira) Rasenberger
Thomas (Tommy) Bloom Raskin
Stephen Rather
Cassandra (Cassie) N. Ray
Evan G. Rea
Nicholas Redondo IV
Harold Reid
Laurel H. Reid
Steven (Stevie) R. Reid II
Norman Reisman
Samuel (Sam) D. Rendall
Michael Reschke
Chris Reuter
Maria de los Angeles Rey
Laura J. Reynolds-Farmer
Jonathan P. Rhodes
John J. Rice, M.D.
Scott T. Richards
Caasi A. Rich-Vogel
Priscilla Riddick-Trotter
Rocco (Rocky) R. Rinaldi
Dorrit L. Rippchen
Janet K. Ritterling
Bernice Rivkin's beloved brother
Jacob (Jake) A. Roberson
Robert
Lauren Robinson-Kieves
Joseph Rodriguez
Paul E. Rogala
Mark Rogosin
Elizabeth Rolland
Richard Roman
Frank J. Romano
Alexis N. Romero
Steven B. Rone, Jr.
Steven B. Rone, Sr.
Violet Ronne
Brian Rorick
Tommy Rorick
Janet Rose
Alan G. Ross
Wayne Ross
Christina Rossi
Matthew S. Rothman
Susan L. Rothman
David H. Roy
Ann M. Rozzo
John G. Ryan
Bertha B. Ryans
Johnathan Saab
Florence Sadowski
Daniel F. Sagalski
Marcos Sanabria
Catherine Sanacora
Carol Sanchez
Scott Sargent
Dagmar J. Sarmiento
Patricia A. Scarboro
Trent Scharf
Terry Scheffler
Scott W. Scheurer
Kenneth M. Schirmer
Lee R. Schoolmeesters
Richard P. Schroeder, Jr.
James Schultz
Mary E. Schultz
Ellen Schusterman
Jack Schwartz
Michael L. Schwartz
Keith D. Scofield
Kelly Scruggs
Ezra Seegull
Timothy B. Sennott
Gary S. Sevitsky
Theodore Shafer
Bruce B. Shaffer
William D. Shannon
Megan L. Sharp
Margaret A. Shepard
Marnie L. Shepherd
Arlene M. Sheridan
Edwin N. Sherr
Harriet Shetler
Sylvia Shick
John O. Shulstad
Robert (Bob) H. Shulstad
David R. Sicular
David W. Silver
Sheldon and Elaine Silverman
Duncan N. Simic
Benjamin Simmons-Courtney
Kevin Simms
Marcia Simon-Kaplan
Jeff Singer
John T. Sinnott
Judith M. Sitzes
Jane E. Slattery
Peter W. Sloan
Edward J. Smith
Liv Smith's beloved brother, Kirby
Mary Ann Smith
William H. Smith II
Mary Smith-Lawrence
Gail S. Smuda
Donald E. Snyder
Carol A. Solverson
Charles Sommers
Nathan A. Soukup
Mary Soyka
Susan K. Soyka
Peter Spacciapoli
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Russell Stamile
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Kathryn E. Suydam
Frances Sweeney
Martin P. Szuba, M.D.
Andrew Taddy
Shobhit Taneja
H. Vonn Taylor
Tyler J. Tebrich
Charles S. Testa
Camilla (Cammie) L. Thompson
Megan Thurkins' beloved
 great-grandfather, Fulton
Nicholas Tindall
Hilary Tisch
Harry (H.L.) L. Todd
Ethel M. Toepel
Arthur (Denny) D. Toll
Gordon Tomalty
Ellen Toolanen
Benjamin J. Toso
Jenifer S. Towle
James W. Townsend
Mario A. Tozzi, Jr.
Richard Trommer
Paul A. Truman
Donald Trybula
Amanda Tucci
Regina Tucker
Robert T. Tucker
Colette Turk-Elliott
William J. Turner, M.D.
Adele C. Tursone
Joseph Tursone
Colby Twinam
Juliette N. Tyler
Tommi Tynjälä
Logan Upton
Steven A. Van Lew
Alton L. Vance II
Charles Varkoly
John M. Vergo
Rick Vestal
Harriet Vicente
Allen E. Vincent
Keith A. Vinskofski
Jillian Vocke's beloved father
Mike Vogel
Jessica Vollman
Gregory Von Burg
Paul Von Burg
Riley P. Wachhorst

Diane M. Waechter
Bob Wagner
William F. Wagner, Jr.
Joshua Wallach
Ann M. Wallbillich-Tanfani
Colleen M. Walsh
Judy A. Walsh
Thomas Walsh
Diana Wanger-Anderson
Andrew W. Ward
Kenneth R. Warning
Janice Weaver
Florence L. Weil
Daniel S. Weiss
Victor Weiss III
Vivian Jean (Viv) Weiss
James C. Welbourne
William (Bill) R. Welch
Kathi L. Weldin
Thomas J. Wendt
Marilyn Werbel
Josh Wertz
Robert M. Wetzel
Allan Wexler
Joseph Wharton
Jim Wheat
Thomas C. Whisler
Timothy L. Whitmer
Dan Wicker, Jr.
Michael G. Wieman
Mark Williams
Shawn B. Williams
Lynn Williams-Figg
Martin S. Willick, M.D.
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June Wolfe
Farrell J. Wolfson

Ivan Wood
Mary Ann Workens-Stahl
G. Richard Worrell
Keith C. Worrell
Christiana Wright
Robert (Bob) S. Wunsch
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Tyler Zgombic
Edward N. Ziegler
Gladys P. Ziegler
Barry L. Zimmerman
John F. Zoraian
Herman A. Zullow

Financial Summary*

Consolidated Statement of Financial Position

	DECEMBER 31, 2021	DECEMBER 31, 2020
ASSETS		
Current Assets		
Cash and cash equivalents	\$16,218,222	\$19,030,200
Investments, at fair value, current portion	16,798,962	14,009,510
Contributions receivable	281,162	121,723
Pledges receivable, current portion	210,000	210,000
Prepaid expenses and other assets	175,982	85,114
Total Current Assets	33,684,328	33,456,547
Assets held in charitable remainder trust	2,127,513	1,762,985
Fixed assets, net	10,152	18,376
Pledges receivable, net, less current portion	190,015	390,015
Investments, at fair value, less current portion	8,947,449	8,947,449
Total Assets	\$44,959,457	\$44,575,372
LIABILITIES AND NET ASSETS		
Liabilities		
Accounts payable and accrued expenses	\$243,940	\$96,430
Grants payable	19,354,810	25,723,635
Accrued compensation	40,007	37,651
Annuities payable	1,013,277	871,385
Charitable gift annuities payable	152,582	159,481
Total Liabilities	20,804,616	26,888,582
Net Assets		
Without donor restrictions	14,145,437	8,075,882
With donor restrictions	10,009,404	9,610,908
Total Net Assets	24,154,841	17,686,790
Total Liabilities and Net Assets	\$44,959,457	\$44,575,372

* The Foundation's complete audited financial statements are available on our website.

Consolidated Statement of Activities

	YEAR ENDED DECEMBER 31, 2021	YEAR ENDED DECEMBER 31, 2020
SUPPORT AND REVENUE		
Contributions	\$14,201,498	\$13,994,067
Contribution of services	2,315,959	2,182,688
Bequests	2,563,135	5,369,469
Net realized and unrealized gains on investments	3,426,155	3,381,571
Net appreciation of assets held in charitable remainder trusts	364,528	262,564
Dividend and interest income	234,294	242,860
Total Support and Revenue	23,105,569	25,433,219
EXPENSES		
Program Services		
Research grants and awards	9,805,853	18,628,508
Scientific advancement	2,396,220	2,192,755
Program support	2,125,712	2,101,324
Total Program Services	14,327,785	22,922,587
Supporting Services		
Fundraising**	802,458	793,114
Administration**	1,507,275	1,501,199
Total Supporting Services	2,309,733	2,294,313
Total Expenses	16,637,518	25,216,900
Change in Net Assets	6,468,051	216,319
Net Assets, beginning of year	17,686,790	17,470,471
Net Assets, end of year	\$24,154,841	\$17,686,790

** All fundraising and administration expenses are funded by specially designated grants.



Awarding **NARSAD** Grants

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