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.
The Research We Fund

We invest in innovative research because we believe that only by pursuing the boldest and most ambitious ideas will we find better treatments, cures, and methods of prevention for mental illness.

We are at the Forefront of Critical Discoveries

Since 1987, the Brain & Behavior Research Foundation has awarded more than $408 million in grants that have led to discoveries that change the way we think about recovery. BBRF-funded research has contributed to:

• FDA approval of the first rapid-acting antidepressants (esketamine and brexanolone) to alleviate severe depression symptoms within hours.

• Dietary supplements for pregnant women to potentially help prevent subsequent mental illness in the child.

• Development of Transcranial Magnetic Stimulation (TMS) and continued improvement of TMS and other non-invasive brain stimulation treatments for treatment-resistant depression and obsessive compulsive disorder.

• Computer-guided training for cognitive remediation in people with schizophrenia.
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.

VISION
To dramatically improve the lives of those living with mental illness, ultimately enabling them to live full, happy, and productive lives.

We fund leading-edge research for mental health that:

- **Patients** require to recover
- **Parents** desire for their children
- **Psychiatrists** need to provide better care
- **Pioneering Scientists** depend upon to make new discoveries
- **Philanthropists** can point to with pride

Our goal: new treatments, cures, and methods of prevention.

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For more than 30 years the Brain & Behavior Research Foundation has fostered new research pathways and transformative breakthroughs. Our 70,000 donors have joined together in the great challenge of modern medical science — overcoming mental illness. Since 1987 the Foundation has awarded more than $408 million to fund more than 5,900 grants. Grants have been given to more than 4,800 leading scientists around the world.
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, and suicide prevention.

OUR SCIENTIFIC COUNCIL
The high quality of the research we fund is made possible by the BBRF Scientific Council. This group of 181 prominent mental health researchers, led by Dr. Herbert Pardes, reviews each grant application and selects the most promising ideas with the greatest potential to lead to breakthroughs. The Scientific Council guides the Foundation to fund creative and impactful basic, translational, and clinical research relevant to the whole spectrum of mental health.

“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.
Since 1987, the Brain & Behavior Research Foundation has invested in the future. The research we fund is innovative, visionary and transformative. We are proud to present you with our 2019 Annual Report.

BBRF is a collaboration between generous donors and dedicated scientists. We understand that advances in science often happen where innovative ideas are nurtured. And we foster it in the best way possible—by supporting scientists with the funding they need to bring their ideas to fruition. We provide the initial funding they need to pursue their hypothesis, concepts and strategies that we believe have the greatest chance of advancing the field.

BBRF has provided more than $408 million in research grants to more than 4,800 scientists around the world. We are proud to report that in 2019 BBRF funded more than $15.2 million in 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.

100% of every dollar donated for research is invested in our research grants. Our operating expenses are covered by separate foundation grants. This means that if you donate a dollar for research, that dollar goes directly to the scientist.

All BBRF grantees are chosen by our world-renowned Scientific Council. Led by Dr. Herbert Pardes, the Council is comprised of 181 scientists who rigorously evaluate every grant application, identifying the most promising and high-quality science. The Council selects those proposals, submitted from around the world, with the greatest potential to lead to significant breakthroughs; projects that will bring benefits by producing new research tools, better treatments, and methods of prevention. It is a formidable task and one that each Council member enjoys and looks forward to. This past year the Council evaluated more than 900 grant proposals. BBRF awarded 200 Young Investigator research grants for $35,000 per year over two years.

One reason that research funded by BBRF has such great impact is because we do not limit our focus to one illness or condition. It is important that we continue to award grants to those investigators who try to determine how the brain works through basic research, as well as develop prevention measures and better treatments—such as the recent development of rapid-acting antidepressants for treatment-resistant depression.

BBRF grants are often the springboard that young scientists need to get a new idea off the ground, create an improved treatment or new methods for prevention, to generate the crucial preliminary data to secure additional funding from the National Institutes of Health. BBRF grants often have great impact on a scientist’s career because of their multiplier effect. BBRF grantees usually go on to receive sustained grant support from other sources (both federal and private) that on average has equaled 10 times the original research grant amount.

Many significant Foundation-funded research results were published in articles in leading psychiatric and medical journals during 2019. This annual report features our “Top 10” Leading Research Achievements by BBRF Grantees, Prizewinners & Scientific Council Members in 2019,
illustrating just some of the remarkable progress being made by investigators we have funded. These important advancements, as well as other scientific discoveries, are changing how we help people who live with mental illness.

In November at our fall Symposium nine outstanding scientists presented their research on depression, ADHD, bipolar disorder, and schizophrenia. Their work is distinguished by their devotion to finding innovative new therapies that will improve care for those living with mental illness. Later that evening at our International Awards Dinner we presented the Pardes Humanitarian Prize in Mental Health to Dr. William T. Carpenter, Jr., the Honorary Pardes Humanitarian Prize in Mental Health to Cynthia Germanotta and Born This Way Foundation, and we celebrated the nine outstanding scientific achievement prizewinners. At our “Breaking the Silence About Mental Illness Luncheon” this past May, Tipper Gore spoke with us about the stigma that is all too often still associated with mental illness.

Our main print publication, Brain & Behavior Magazine, continues to highlight the most important advancements in scientific research. This is supplemented by our weekly eNews, a weekly email newsletter written for our donors and the general public featuring the research of BBRF grantees, prizewinners, and Scientific Council members. Through these and other efforts, we aim to share information with our donors as often as possible about what is happening in the labs, and about work that is carrying new knowledge and insights from bench to bedside.

BBRF also produces the television series, “Healthy Minds,” which is broadcast on public television stations around the nation and is available online. The series provides useful information to the public about psychiatric conditions and treatments as well as cutting edge research advancements.

In summary, 2019 was a strong testament to more than 30 years of our leadership in supporting mental health research. Working alongside the BBRF Board, Scientific Council, and our donors is an honor and we thank you for your dedication to our mission.

Together, we will continue to fund innovative and impactful research that will drive the field forward. Our shared goal of a world free from debilitating mental illnesses relies first and foremost upon you, our donors—in partnership with the scientists chosen by the BBRF Scientific Council—who are working to transform your donations into improved treatments, cures, and methods of prevention for our loved ones.

We are inspired by the magnitude and scope of the discoveries that are being made by the scientists we fund together and appreciate your ongoing generous support.

Sincerely,

Jeffrey Borenstein, M.D.
President & CEO

Herbert Pardes, M.D.
President, Scientific Council

Stephen A. Lieber
Chair, Board of Directors
Important Advances Funded Through BBRF Grants

2019
Rapid-Acting Antidepressants Approved
The FDA approves the first-ever rapid-acting antidepressants for use in treatment-resistant depression (esketamine) and postpartum depression (braxanalone). 90 BBRF grants over 20 years helped provide the foundation.

2018
More Rapid Form of Non-Invasive Brain Stimulation for Depression
Dr. Daniel Blumberger and colleagues successfully demonstrate iTBS, a way of delivering repetitive transcranial magnetic stimulation in sessions lasting a few minutes, as opposed to over a half-hour.

2018
A New Perspective on Anorexia
Dr. Cynthia Bulik and a large international team of geneticists demonstrate that anorexia nervosa is a metabolic disorder as well as a psychiatric one.

2018
Pregnancy Complications and Schizophrenia
Dr. Daniel Weinberger and colleagues show that pregnancy complications and related stresses amplify the child’s inherited risk for schizophrenia by a factor of 10, with male children affected more than females.

2018
Computer-Delivered Cognitive Training Enhances Recovery in Schizophrenia
Dr. Gregory Light and team demonstrate that a training program delivered by a personal computer can help many patients with chronic schizophrenia improve cognition and social skills.

2018
Machine Learning Facilitates Early Diagnosis
Dr. Bo Cao uses machine learning to read and analyze brain scans in order to confirm newly diagnosed schizophrenia and predict individual response to antipsychotic medication.

2017
Choline Supplementation in Pregnancy
Dr. Robert Freedman pioneers choline supplementation in the diet of pregnant women to potentially reduce risk of mental illness in children. The American Medical Association (AMA) recommends including choline in prenatal vitamin supplements.

2017
Bright Light Therapy for Bipolar Depression
Drs. Dorothy Sit and Katherine Wisner demonstrate the potential efficacy of bright light therapy delivered at mid-day in treating bipolar depression, dispelling concerns about inducing mania.
“The Brain & Behavior Research Foundation is the most remarkable organization that I've ever interacted with. It has had such a profound impact on not only my career, but on generations of young investigators. Through its BBRF Grants, it has been a catalyst to the development of young scientists and through that mechanism has fueled innovation in psychiatry since its inception.”

– John Krystal, M.D.
(pioneer in rapid-acting antidepressant research)
Important Advances Funded Through BBRF Grants

2005
Invention of Optogenetics to Better Understand and Treat Mental Illness
Dr. Karl Deisseroth and colleagues invent this experimental method that involves the use of light to switch neurons on or off, one at a time or in groups. Opens new research opportunities worldwide to study mechanisms behind depression and other psychiatric illnesses.

2007
A Way Forward for Diagnostics on Mental Illness
Dr. Grigori Enikolopov and colleagues develop the first biomarker enabling neural stem and progenitor cells (NPCs) to be tracked, non-invasively, in the brains of living human subjects.

2004
Clarifying Suicide Risk in Teens Taking Antidepressants
In multicenter Treatment of Adolescent Depression Study (TADS) Dr. John March and colleagues show risk can be greatly reduced if antidepressant is combined with cognitive behavioral therapy.

2003
Proof that Clozapine Reduces the Risk for Suicide
A study directed by Dr. Herb Meltzer provides definitive proof leading to the first approval by the FDA of any drug for this purpose and for any specific component of a psychiatric disorder, rather than a disorder as a whole, e.g. schizophrenia.

2001
The Brain’s Capacity to Recover
Dr. Bruce McEwen’s pathbreaking studies of the impact of stress on the hippocampus lead to key insights about neural plasticity and the potential for recovery of function.

2003
Deep Brain Stimulation (DBS) in Treatment of Depression
Dr. Helen Mayberg uses this technology to target ‘area 25,’ a place in the brain she earlier found to be an important locus of depression pathology.

2001
Trauma Center for 9-11 Survivors
Dr. Yuval Neria sets up a trauma center to study the effects of the WTC attacks.

2000
Nobel Prize for Discoveries on Signaling in the Nervous System and Providing a Molecular Window on the Brain
Dr. Eric Kandel and Dr. Paul Greengard are awarded the Nobel Prize (along with Dr. Arvid Carlsson) for this work that eventually impacts treatments for Parkinson’s, schizophrenia, and depression and holds promise for the improvement of memory in dementia.
“I cannot say how much BBRF helped my career, actually not just my career but all of my research ‘offspring.’ I think since I’ve been at Columbia, postdocs in my lab must have received somewhere around 35 Young Investigator Grants. So I don’t think I would be standing here if it wasn’t for this Foundation.”

– René Hen, Ph.D.
(pioneer in neurogenesis research)
Our Scientific Council

181 Members (12 Emeritus)
54 Members of the National Academy of Medicine
41 Department & Program Chairs
16 National Institute of Health Chiefs & Directors
11 Members of the National Academy of Sciences
4 Recipients of the National Medal of Science
3 Directors of the National Institute of Mental Health
1 Nobel Prize Winner

President
Herbert Pardes, M.D.

Vice President Emeritus
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Ted Abel, Ph.D.
Anissa Abi-Dargham, M.D.
Susan E. Ahmari, M.D., Ph.D.
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David Goldman, M.D.
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Stephan Heckers, M.D.
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Yasmin L. Hurd, Ph.D.
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Robert M. Kessler, M.D.
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Rachel G. Klein, Ph.D.
John H. Krystal, M.D.
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Ellen Leibenluft, M.D.
Robert H. Lenox, M.D.
Pat R. Levitt, Ph.D.
David A. Lewis, M.D.
Jeffrey A. Lieberman, M.D.
Kelvin Lim, M.D.
Joan L. Luby, M.D.
Irwin Lucki, Ph.D.
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Karoly Mirnics, M.D., Ph.D.
Richard J. Miller, Ph.D.
Kathleen R. Merikangas, Ph.D.
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Robert M. Post, M.D.
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Steven G. Potkin, M.D.
Pasko Rakic, M.D., Ph.D.
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Bernardo Sabatini, M.D., Ph.D.
Gerard Sanacora, M.D., Ph.D.
Akira Sawa, M.D., Ph.D.
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Robert Schwarz, Ph.D.
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Aristotle N. Vineskos, M.D., Ph.D.
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.

Members Emeritus

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BJ Casey, Ph.D.
Dennis S. Charney, M.D.
Jan A. Fawcett, M.D.
Frederick K. Goodwin, M.D.
Kenneth K. Kidd, Ph.D.
Philip Seeman, M.D., Ph.D.
Andrew L. Nierenberg, M.D.
James W. Potter, 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

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 selects the most promising research ideas with the greatest potential to lead to breakthroughs.

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

We welcome our six newest members.

“We are seeing significant advances in psychiatric research on multiple fronts. We are pleased that these six leading experts joined our Council to keep the momentum going by helping us to identify the best ideas in brain research—the basis for awarding BBRF grants.”

- Herbert Pardes, M.D.

KRISTEN BRENNAND, Ph.D.
Associate Professor, Departments of Genetics and Genomics, Neuroscience, and Psychiatry
Icahn School of Medicine at Mount Sinai
2018 BBRF Maltz Prizewinner for Innovative & Promising Schizophrenia Research
2016 BBRF Independent Investigator Grant
2012 BBRF Young Investigator Grant

LISA B. DIXON, M.D., M.P.H.
Professor of Psychiatry at CUMC
Director, Division of Behavioral Health Services and Policy Research
New York State Psychiatric Institute, Columbia University Vagelos College of Physicians and Surgeons
1999 BBRF Independent Investigator Grant
1991 BBRF Young Investigator Grant

ROBERT L. FINDLING, M.D., MBA
Director of Child and Adolescent Psychiatry
Vice President for Psychiatry Services and Research
Johns Hopkins Medicine / Kennedy Krieger Institute
1993 BBRF Young Investigator Grant

YASMIN L. HURD, Ph.D.
Ward-Coleman Chair in Translational Neuroscience
Professor of Psychiatry, Neuroscience and Pharmacological Sciences
Icahn School of Medicine at Mount Sinai

LISA M. MONTEGGIA, Ph.D.
Barlow Family Director, Vanderbilt Brain Institute
Professor, Department of Pharmacology
Vanderbilt University Medical Center
2014 BBRF Distinguished Investigator Grant
2010 BBRF Independent Investigator Grant
2005 BBRF Freedman Award
2003, 2001 BBRF Young Investigator Grant

CARLOS A. ZARATE, JR., M.D.
Chief, Experimental Therapeutics & Pathophysiology Branch and Section on the Neurobiology and Treatment of Mood Disorders
National Institute of Mental Health
2011 BBRF Bipolar Mood Disorders Award Prizewinner (Colvin Prize)
2005 BBRF Independent Investigator Grant
1996 BBRF Young Investigator Grant
2019 Leading Research Achievements by Foundation Grantees

**Next-Generation Therapies: Schizophrenia**

**Adding Guanfacine Boosted Benefits of Cognitive Remediation Therapy in a Schizophrenia Spectrum Disorder**

Margaret M. McClure, Ph.D.
Icahn School of Medicine at Mount Sinai
2013 BBRF Young Investigator
American Journal of Psychiatry, April 2019

Adding the FDA-approved drug guanfacine to a validated therapy program to treat cognitive deficits led to even better results for individuals with a schizophrenia spectrum disorder. This was demonstrated in a study of 28 patients with schizotypal personality disorder. Like others across the schizophrenia spectrum, these patients had cognitive impairments affecting verbal and spatial memory, attention, abstract reasoning, and verbal fluency. Those receiving guanfacine in addition to cognitive remediation plus social skills training showed significantly greater improvement in reasoning, problem-solving, functional skills, and in some cases, social skills, compared with patients who received only cognitive remediation therapy plus social skills training.

**Diagnostic Tools/Early Intervention: Schizophrenia, Psychosis, ADHD**

**Higher Maternal Choline Levels in Pregnancy Had Protective Role in Infant Brain Development**

Robert R. Freedman, M.D.
University of Colorado Denver School of Medicine
BBRF Scientific Council, 2015 Lieber Prize, 2006 and 1999 BBRF Distinguished Investigator

M. Camille Hoffman, M.D.
University of Colorado Denver School of Medicine
2015 Baer Prize

Journal of Pediatrics, May 2019

A study of 132 pregnancies found that children born to mothers who had infections during the first 16 post-conception weeks performed better in two key postnatal measures of healthy brain function when their mothers had higher levels of choline—an essential nutrient—during pregnancy, compared with children whose mothers had lower choline levels. A deficiency of choline, affecting up to half of pregnant women, appears to impair the development of inhibitory circuitry around the time of birth, possibly contributing to pathology seen in schizophrenia, psychosis, attention-deficit and other disorders. This research supports the case for choline supplementation during pregnancy.

The research team included: Amanda Law, Ph.D., BBRF Scientific Council, 2011 Baer Prize, 2009 BBRF Distinguished Investigator and 2006 Young Investigator; Sharon Hunter, Ph.D., 2003 BBRF Young Investigator.
Diagnostic Tools/Early Intervention: Anxiety

Over-sensitivity to Sound, Smell, Touch, or Taste in Preschoolers Predicted Higher Risk for Anxiety at Age 6

Kimberly L. H. Carpenter, Ph.D.
Duke University School of Medicine
2015 BBRF Young Investigator
Journal of Abnormal Child Psychology, June 2019

Researchers reported that sensory over-sensitivity in children of preschool age (2 to 5) is a risk factor for subsequent anxiety disorder, and can predict the appearance of anxiety symptoms at age 6. The intensity of anxiety symptoms, in turn, was found to correspond with the seriousness of concurrent behavioral issues such as irritability, picky eating, and sleep problems. Fifty-two percent of preschool children in the study with at least one sensory sensitivity went on to meet criteria for anxiety disorder at school age. These included physical contact with other people or fabrics and clothes tags; food textures; visual experience such as bright lights; auditory experiences such as loud or high-pitched noises; olfactory experiences; tastes; and sensations of motion.

The research team included: Helen L. Egger, M.D., 2006 and 2000 BBRF Young Investigator and 2004 Klerman Prize; William E. Copeland, Ph.D., 2008 BBRF Young Investigator; Scott Compton, Ph.D., 2001 BBRF Young Investigator.

Next-Generation Treatments: Bipolar Disorder

Study Finds Lithium Has Advantages Over Other Mood Stabilizers in Youths with Bipolar Disorder

Boris Birmaher, M.D.
University of Pittsburgh School of Medicine
2013 Colvin Prize
Journal of the American Academy of Child & Adolescent Psychiatry, July 2019

The drug lithium is widely regarded as a first-line treatment for adults with bipolar disorder. Its suitability for younger patients has now been demonstrated. Taking advantage of a 15-year study that has followed 413 youths with bipolar disorder recruited at ages 7 to 17, researchers compared outcomes in 340 of the youths. These participants had over 2,600 follow-ups: 886 were in participants being maintained on lithium, while 1,752 were in participants taking other medications. Lithium use was associated with fewer suicide attempts, fewer depression symptoms, better psychosocial function, and less parent-reported aggression, the team found.

The research team included: Martin Keller, M.D., BBRF Scientific Council, 1998 Selo Prize; Benjamin Goldstein, M.D., Ph.D., 2014 BBRF Independent Investigator, 2007 Young Investigator, 2018 Colvin Prize.

Basic Research: Eating Disorders

Large Genome Study Suggests Anorexia Nervosa is a Metabolic Disorder as Well as a Psychiatric One

Cynthia Bulik, Ph.D.
University of North Carolina, Chapel Hill and Karolinska Institute, Sweden
2017 BBRF Distinguished Investigator
Nature Genetics, August 2019

The largest genetic study to date of anorexia nervosa, involving nearly 17,000 patients and over 55,000 controls, has identified eight areas in the human genome where DNA variations contribute to risk for the illness. More important, potentially: the research extends our understanding of this psychiatric illness by showing that genetic factors that influence metabolism, and specifically body mass index (BMI), also contribute to its origins. Thus, processes in the body that normally regulate metabolism, including weight regulation, may be malfunctioning in anorexia nervosa patients, underlying some of the weight and feeding symptoms previously explained as psychological.

The research team included: Patrick F. Sullivan, M.D., FRANZCP, 2014 Lieber Prize, 2010 BBRF Distinguished Investigator; Gerome Breen, Ph.D., 2007 BBRF Young Investigator; Dan Rujescu, M.D., Ph.D., 2006 BBRF Independent Investigator; Wade H. Berrettini, M.D., Ph.D., BBRF Scientific Council, 2009 and 2004 BBRF Distinguished Investigator, 1996 Selo Prize; Stephan Ripke, M.D., Ph.D., 2015 BBRF Young Investigator, 2014 Baer Prize; Sarah E. Medland, Ph.D., 2017 BBRF Independent Investigator.
Basic Research: Bipolar Disorder

Long-term Study Reveals Trajectory of How Bipolar Disorder Emerges in High-Risk Youth

Anne Duffy, M.D., F.R.C.P.C.
Queen’s University at Kingston, Ontario
2005, 2003 BBRF Independent Investigator; 2000 Young Investigator
American Journal of Psychiatry, September 2019

A multi-decade study focusing on children of parents diagnosed with bipolar disorder quantifies the risk—24.5%—that they themselves will develop bipolar illness, and suggests a “progressive sequence” in which the illness typically unfolds between the ages of 12 and 30. The “trajectory” established in the study is expected to help doctors to diagnose bipolar disorder in young people, which is challenging partly because acute symptoms are often not specific to bipolar disorder and often overlap with those of other disorders. The study found that childhood sleep and anxiety disorders are important predictors of emerging bipolar disorder and that progression to a diagnosis was typically heralded by an episode of mania or hypomania and/or a first episode of psychosis following a single episode or recurrent major depression.

The research team included: Paul Grof, M.D., Ph.D., 2005 and 2003 BBRF Independent Investigator, 2002 Falcone Prize, 2000 Young Investigator.

Diagnostic Tools/Early Intervention: Autism Spectrum Disorder

Progress in Research on Brain Wave Patterns to Predict Autism Outcomes

Charles A. Nelson III, Ph.D.
Harvard University, Boston Children’s Hospital
2017 Ruane Prize

April R. Levin, M.D.
Harvard University, Boston Children’s Hospital
2016 BBRF Young Investigator.
Nature Communications, September 2019

Researchers made an important discovery about the relationship between patterns in brain waves—oscillations created by the activity of neurons—and pathology in autism spectrum disorder (ASD) that emerges in the first 3 years of life. They used EEG (electroencephalograms) to measure brain waves in infants beginning 3 months after birth and continuing until a full behavioral assessment at age 3. The infants were born with high risk for ASD, as each had at least one older sibling who had already been diagnosed. In the 30% who went on to an ASD diagnosis at age 3, when outward symptoms are evident, it was clear in retrospect that brain wave differences predicting that outcome were clearest in the first postnatal year. While not yet ready for the clinic, the biomarker is a strong step toward early diagnosis.

Basic Research: PTSD, Anxiety

In Mice, and Perhaps People, Gut Organisms Impact the Ability to Extinguish Fear

Conor Liston, M.D., Ph.D.
Weill Cornell Medical College
2013 BBRF Young Investigator
Nature, October 2019

Researchers demonstrated that changes in the microbiome—organisms and viruses living in the gut—can result in an impaired ability to extinguish fear. In experiments with mice raised without gut organisms and others treated with organism-killing antibiotics, the ability to extinguish fear was impaired, compared with mice whose microbiome was not altered. The difference suggested that signals from the microbiome were necessary for optimal extinction of conditioned fear responses. Such extinction comes into play when a stimulus initially feared is found to be of little or no danger. The inability to extinguish such fears can be an important factor in post-traumatic stress disorder and anxiety. Bacteria and viruses in the gut may affect the central nervous system through their production and circulation of metabolites, four of which were identified in this preliminary study.

The research team included: Francis S. Lee, M.D., Ph.D., BBRF Scientific Council, 2010 BBRF Young Investigator, 2005 and 2002 Young Investigator; Dequiang Jing, M.D., Ph.D., 2012 BBRF Young Investigator.
Next-Generation Therapies: Depression

Deep-Brain Stimulation Showed Multi-Year Effectiveness in Severely Depressed, Treatment-Resistant Patients

Helen S. Mayberg, M.D.
Icahn School of Medicine at Mount Sinai
American Journal of Psychiatry, November 2019

A long-term follow-up study of 28 people whose serious, treatment-resistant major depression was treated surgically with deep-brain stimulation (DBS) found that 21 of the patients experienced a sustained and robust antidepressant response (at least 50% symptom reduction). The follow-up period ranged from 4 to 8 years. Dr. Mayberg, who pioneered DBS, said these results justify continued clinical testing of DBS, since the level of relief it provided to many of the participants over time "is unmatched" by other treatment types in patients with comparably severe treatment resistance. Participants in the study had failed to respond to at least four prior antidepressant treatments, including electroconvulsive therapy (ECT).

The research team included: Paul Holtzheimer, M.D., 2016 BBRF Independent Investigator, 2007 Young Investigator; Steven Garlow, M.D., Ph.D., 1997 BBRF Young Investigator

Basic Research; Diagnostic Tools/Early Intervention: Addiction—Alcohol

Activity in Newly Discovered Brain Circuit Predicted Future Compulsive Drinking in Mice

Kay M. Tye, Ph.D.
Salk Institute for Biological Studies
BBRF Scientific Council, 2016 Freedman Prize, 2013 BBRF Young Investigator
Science, November 2019

While nearly every adult has an alcoholic drink at some point, only some develop an alcohol use disorder. This research sought to discover biological differences between adults who do and do not drink compulsively, via experiments in mice, which can accurately model human drinking behaviors. The researchers discovered a circuit in the mouse brain whose functioning appears to provide a mechanistic explanation for compulsive alcohol drinking. The mice sorted themselves into three distinct groups—one with little appetite for alcohol; another that developed a desire to drink regularly but was sensitive to experiencing discomfort because of it; and a third that drank compulsively regardless of any discomfort. The circuit found to drive the behavior was experimentally manipulated, resulting in increased or decreased compulsive drinking in specific individuals. Importantly, the team was able to see, in retrospect, which animals would go on to drink compulsively based on neural circuit activity that occurred the very first time they drank alcohol. Future research will determine if this finding has translational value in people.

The research team also included: Cody Siciliano, Ph.D., 2017 BBRF Young Investigator
BBRF Grant recipients have gone on to receive an estimated $3.9 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:

- Basic Research
  To understand how the brain works and what happens to cause mental illness
- Diagnostic Tools/Early Intervention
  Development of tools, therapies and methods to support earliest possible diagnosis and treatment
- New Technologies
  To advance or create new ways of studying and understanding the brain
- Next-Generation Therapies
  Developing and testing the next wave of therapeutics to address psychiatric 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 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 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.

“I really have to say that BBRF has played an enormous role in my development as a scientist. The first grant that I ever received was a BBRF Young Investigator Award. BBRF grants came to me at particular times that were really critical to the development of research. There was a period where my funding was questionable, when I was a postdoctoral research fellow. And BBRF grants provided the critical boost that led me to apply for and receive funding from the NIH and from other agencies. And it was that preliminary data that I collected on that influenza study in 1993, which I think is the big reason I’m standing here today telling you about this research.”

- Alan S. Brown, M.D., M.P.H.
  2019 BBRF Lieber Prize for Outstanding Achievement in Schizophrenia Research
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 Institute of Health.

An extraordinary aspect of many of the 2019 Young Investigator research projects is their coverage of multiple disorders. This reflects the growing realization that many symptoms of psychiatric illnesses are experienced by patients with different diagnoses—for instance, symptoms shared by depression and anxiety, or schizophrenia and bipolar disorder. In many instances, when our Young Investigators conduct research that crosses diagnostic boundaries, they are exploring biological processes that underlie these illnesses.

It’s an exciting and very promising trend in 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 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 Distinguished Investigator

“BBRF Young Investigators represent a new generation of researchers who will pioneer breakthroughs in mental health research. We are excited to be able to support the work of these young scientists.”

Jeffrey Borenstein, M.D.
2019 Grants by Illness

Institutions listed represent where the grant was awarded. Some grantees are listed under multiple categories as their grant projects are relevant to that illness.

**ADDICTION / SUBSTANCE-USE DISORDERS**

Ream Al-Hasani, Ph.D.
St. Louis College of Pharmacy and Washington University
[ID] **Basic Research**

Maxime Assous, Ph.D.
Rutgers University
[ID] **Basic Research**

Gerard Beaudoin, III, Ph.D.
Trinity University
[ID] **Basic Research**

Erin Campbell, Ph.D.
Florey Institute of Neuroscience and Mental Health, Australia
[ID] **Diagnostic Tools/Early Intervention**

Daniel Christoffel, Ph.D.
Stanford University
[ID] **Basic Research**

Luis Colon Perez, Ph.D.
University of California, Irvine
[ID] **Diagnostic Tools/Early Intervention**

Gregory Corder, Ph.D.
University of Pennsylvania
[ID] **Basic Research**

Johannes de Jong, Ph.D.
University of California, Berkeley
[ID] **Basic Research**

Hanan El Marroun, Ph.D.
Erasmus University Medical Center, Netherlands
[ID] **Basic Research**

Kyle Flippo, Ph.D.
University of Iowa Hospitals and Clinics
[ID] **Basic Research**

Felicity Gore, Ph.D.
Stanford University
[ID] **Basic Research**

Matthew Hearing, Ph.D.
Marquette University
[ID] **Basic Research**

Alexander Herman, M.D., Ph.D.
University of Minnesota
[ID] **Next-Generation Therapies**

Andrea Hobkirk, Ph.D.
Pennsylvania State University
[ID] **Diagnostic Tools/Early Intervention**

Daniique Jeurssen, Ph.D.
Columbia University
[ID] **Basic Research**

Erica Jung, Ph.D.
University of Illinois at Chicago
[ID] **Basic Research**

Angela Mabb, Ph.D.
Georgia State University
[ID] **Basic Research**

Philipp Mews, Ph.D.
Icahn School of Medicine at Mount Sinai
[ID] **Basic Research**

Jacquelyn Meyers, Ph.D.
State University of New York, Downstate
[ID] **Basic Research**

Daniela Neuhofer, Ph.D.
Medical University of South Carolina
[ID] **Basic Research**

Greg Perlman, Ph.D.
Stony Brook University School of Medicine
[ID] **Diagnostic Tools/Early Intervention**
[ID] **New Technologies**

Mina Rizk, M.D.
Columbia University
[ID] **Basic Research**

Samantha Scudder, Ph.D.
University of California, Santa Barbara
[ID] **Basic Research**

Alessandra Vergallito, Ph.D.
University of Milano Bicocca, Italy
[ID] **Next-Generation Therapies**

Corinde Wiers, Ph.D.
National Institute on Alcohol Abuse & Alcoholism, NIH
[ID] **Next-Generation Therapies**

Hideaki Yano, Ph.D.
National Institute on Drug Abuse, NIH
[ID] **Basic Research**

**ATTENTION-DEFICIT HYPERACTIVITY DISORDER (ADHD)**

Mariam Aly, Ph.D.
Columbia University
[ID] **Basic Research**

Weidong Cai, Ph.D.
Stanford University
[ID] **Basic Research**

Kimberly Chiew, Ph.D.
University of Denver
[ID] **Basic Research**

Supriya Ghosh, Ph.D.
University of Chicago
[ID] **Basic Research**

Rachel Lean, Ph.D.
Washington University School of Medicine
[ID] **Basic Research**

Claudia Lugo-Candelas, Ph.D.
Columbia University/Research Foundation for Mental Hygiene/NYSPI
[ID] **Basic Research**

Joanna Martin, Ph.D.
Cardiff University, UK
[ID] **Basic Research**
ANXIETY DISORDERS

Rany Abend, Ph.D.
National Institute of Mental Health, NIH
Diagnostic Tools/Early Intervention

Jessica Ables, M.D., Ph.D.
Icahn School of Medicine at Mount Sinai
Basic Research

Lauren Asarnow, Ph.D.
Stanford University
Next-Generation Therapies

Jeremy Borniger, Ph.D.
Stanford University
Basic Research

George Buzzell, Ph.D.
University of Maryland
Basic Research

Gregory Corder, Ph.D.
University of Pennsylvania
Basic Research

Laura DeNardo, Ph.D.
University of California, Los Angeles
Basic Research

Roman Dvorkin, Ph.D.
Cold Spring Harbor Laboratory
Basic Research

Dawn Eichen, Ph.D.
University of California, San Diego
Next-Generation Therapies

Courtney Filippi, Ph.D.
National Institute of Environmental Health Sciences, NIH
Diagnostic Tools/Early Intervention

Adam Gorka, Ph.D.
National Institute of Mental Health, NIH
Next-Generation Therapies

Melissa Herman, Ph.D.
University of North Carolina at Chapel Hill
Next-Generation Therapies

Jesse Jackson, Ph.D.
University of Alberta, Canada
Basic Research

Munir Kutlu, Ph.D.
Vanderbilt University
Basic Research

Daniel Levey, Ph.D.
Yale University
Diagnostic Tools/Early Intervention

Elizabeth Lucas, Ph.D.
North Carolina State University
Basic Research

Angela Mabb, Ph.D.
Georgia State University
Basic Research

Joanna Martin, Ph.D.
Cardiff University, UK
Basic Research

Jordan McCall, Ph.D.
Washington University
Basic Research

Ciara Murphy-Royal, Ph.D.
University of Calgary, Canada
Basic Research

Agnes Norbury, Ph.D.
Icahn School of Medicine at Mount Sinai
Basic Research

Catherine Pena, Ph.D.
Princeton University
Basic Research

David Root, Ph.D.
University of Colorado, Denver
Basic Research

Lindsay Schwarz, Ph.D.
St. Jude Children’s Research Hospital
Basic Research

Helen Schwerdt, Ph.D.
Massachusetts Institute of Technology
Basic Research

Samantha Scudder, Ph.D.
University of California, Santa Barbara
Basic Research

Ashwini Tiwari, Ph.D.
McMaster University, Canada
Diagnostic Tools/Early Intervention

Chelsea Vadnie, Ph.D.
University of Pittsburgh
Basic Research

Alessandra Vergallito, Ph.D.
University of Milano Bicocca, Italy
Next-Generation Therapies

Yuanzhong Xu, Ph.D.
University of Texas Health Science Center at Houston
Basic Research

Katherine Young, Ph.D.
King’s College London, UK
Next-Generation Therapies

AUTISM SPECTRUM DISORDER (ASD)

Andre Berndt, Ph.D.
University of Washington
Basic Research

Shelly Buffington, Ph.D.
University of Texas Medical Branch at Galveston
Basic Research

Michael Cahill, Ph.D.
University of Wisconsin-Madison
Basic Research

Alicia Che, Ph.D.
Weill Cornell Medical College
Basic Research

Karina Genaro, Ph.D.
University of California, Irvine
Basic Research

Suk Jun Hong, Ph.D.
Child Mind Institute
Basic Research

Jacque Pak Kan Ip, Ph.D.
Massachusetts Institute of Technology
Basic Research

Moshen Jamali, M.D., Ph.D.
Harvard University / Massachusetts General Hospital
Basic Research

Magdalena Janecka, Ph.D.
Icahn School of Medicine at Mount Sinai
Basic Research
Tae Hyun Kim, Ph.D.
Case Western Reserve University
Basic Research

Benjamin Kleaveland, M.D., Ph.D.
Whitehead Institute for Biomedical Research
Basic Research

Madeleine Kyrke-Smith, Ph.D.
University of Utah
Basic Research

Johannes Larsch, Ph.D.
Max-Planck Institute of Neurobiology, Germany
Basic Research

Angela Mabb, Ph.D.
Georgia State University
Basic Research

Devanand Manoli, M.D., Ph.D.
Gladstone Institutes/University of California, San Francisco
Basic Research

Pierre Matter, Ph.D.
Ottawa Hospital Research Institute, Canada
Basic Research

Ralda Nehme, Ph.D.
The Broad Institute at MIT and Harvard University
Basic Research

Jason Nomi, Ph.D.
Miami University
Basic Research

Won Chan Oh, Ph.D.
University of Colorado, Denver
Basic Research

Rui Peixoto, Ph.D.
University of Pittsburgh
Basic Research
New Technologies

Mu Qiao, Ph.D.
California Institute of Technology
Basic Research

Brian Rash, Ph.D.
Yale University
Basic Research

Christopher Rodgers, Ph.D.
Columbia University
Basic Research

Steven Sloan, M.D., Ph.D.
Emory University
Basic Research

Anne Takesian, Ph.D.
Harvard Medical School
Basic Research
Next-Generation Therapies

Stefon van Noordt, Ph.D.
McGill University, Canada
Diagnostic Tools/Early Intervention

Thomas Vierbuchen, Ph.D.
Memorial Sloan-Kettering Cancer Center
Basic Research

Lu Wang, Ph.D.
University of California, San Diego
Basic Research

Yi-Lan Weng, Ph.D.
Houston Methodist Research Institute
Basic Research

Leena Williams, Ph.D.
University Hospital of Geneva, Switzerland
Basic Research

Jingqi Yan, Ph.D.
Albert Einstein College of Medicine
Basic Research

Jun Yokose, Ph.D.
University of Texas Southwestern Medical Center at Dallas
Basic Research

BIPOLAR DISORDER

Azmeraw Tayelgn Amare, Ph.D.
University of Adelaide, Australia
Basic Research
New Technologies

Michele Bertocci, Ph.D.
University of Pittsburgh
Basic Research

June Gruber, Ph.D.
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Diagnostic Tools/Early Intervention

Danella Hafeman, M.D., Ph.D.
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Diagnostic Tools/Early Intervention

Kristen Haut, Ph.D.
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Basic Research

Philipp Homan, M.D., Ph.D.
Feinstein Institute for Medical Research / Northwell Health
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Muhammad Husain, MBBS, M.D.
University of Toronto / Center for Addiction and Mental Health, Canada
Basic Research

Moshen Jamali, M.D., Ph.D.
Harvard University / Massachusetts General Hospital
Basic Research

Paul Jenkins, Ph.D.
University of Michigan
Basic Research

Danique Jeurissen, Ph.D.
Columbia University
Basic Research

Daniel Joyce, Ph.D.
Stamford University
Next-Generation Therapies
New Technologies

Munir Kutlu, Ph.D.
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Jessica Lipschitz, Ph.D.
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Diagnostic Tools/Early Intervention
New Technologies

Amanda Lyall, Ph.D.
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Basic Research

Ralda Nehme, Ph.D.
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Basic Research

Marcos Santoro, Ph.D.
Universidade Federal de Sao Paulo, Brazil
Diagnostic Tools/Early Intervention
Andrey Shabalin, Ph.D.
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Basic Research

Yasuyuki Shima, Ph.D.
RIKEN Brain Science Institute, Japan
Basic Research

Chelsea Vadnie, Ph.D.
University of Pittsburgh
Basic Research

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BORDERLINE PERSONALITY DISORDER

Laura DeNardo, Ph.D.
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Basic Research

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DEPRESSION

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Max-Planck Institute of Psychiatry, Germany
Diagnostic Tools/Early Intervention

Christoph Kraus, M.D., Ph.D.
Medical University of Vienna, Austria
Next-Generation Therapies

Munir Kutlu, Ph.D.
Vanderbilt University
Basic Research

Daniel Levey, Ph.D.
Yale University
Diagnostic Tools/Early Intervention
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Research Area</th>
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<tbody>
<tr>
<td>Laura Lewis, Ph.D.</td>
<td>Boston University</td>
<td>Basic Research</td>
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<td>Angela Mabb, Ph.D.</td>
<td>Georgia State University</td>
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<td>Merry Mani, Ph.D.</td>
<td>University of Iowa</td>
<td>Next-Generation Therapies</td>
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<td>Devanand Manoli, M.D., Ph.D.</td>
<td>Gladstone Institutes/University of California, San Francisco</td>
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<td>Washington University</td>
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<td>Stony Brook University</td>
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<td>Jean-Philippe Miron, Ph.D.</td>
<td>University of Toronto, Canada</td>
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<td>Laurel Morris, Ph.D.</td>
<td>Icahn School of Medicine at Mount Sinai</td>
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<td>Ciaran Murphy-Royal, Ph.D.</td>
<td>University of Calgary, Canada</td>
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<td>Carla Nasca, Ph.D.</td>
<td>The Rockefeller University</td>
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<td>Ralda Nehme, Ph.D.</td>
<td>The Broad Institute at MIT and Harvard University</td>
<td>Basic Research</td>
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<td>Kieran O'Donnell, Ph.D.</td>
<td>Douglas Mental Health University Institute, Canada</td>
<td>Diagnostic Tools/Early Intervention</td>
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<td>Jason Oliver, Ph.D.</td>
<td>Duke University</td>
<td>New Technologies</td>
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<td>Jocelien Olivier, Ph.D.</td>
<td>University Medical Center Groningen, Netherlands</td>
<td>Basic Research</td>
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<tr>
<td>Alexey Ostroumov, Ph.D.</td>
<td>University of Pennsylvania</td>
<td>Basic Research</td>
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<tr>
<td>Thomas Papouin, Ph.D.</td>
<td>Washington University School of Medicine</td>
<td>Basic Research</td>
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<tr>
<td>Catherine Pena, Ph.D.</td>
<td>Princeton University</td>
<td>Basic Research</td>
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<tr>
<td>Roseann Peterson, Ph.D.</td>
<td>Virginia Commonwealth University</td>
<td>Diagnostic Tools/Early Intervention</td>
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<tr>
<td>Juliet Richetto, Ph.D.</td>
<td>Brain Research Institute, University of Zurich, Switzerland</td>
<td>Basic Research</td>
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<tr>
<td>David Root, Ph.D.</td>
<td>University of Colorado, Denver</td>
<td>Basic Research</td>
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<td>Shogo Sato, Ph.D.</td>
<td>University of California, Irvine</td>
<td>Basic Research</td>
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<tr>
<td>Lindsay Schwarz, Ph.D.</td>
<td>St. Jude Children's Research Hospital</td>
<td>Basic Research</td>
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<td>Helen Schwerdt, Ph.D.</td>
<td>Massachusetts Institute of Technology</td>
<td>Basic Research</td>
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<td>Andrey Shabalin, Ph.D.</td>
<td>University of Utah</td>
<td>Basic Research</td>
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<td>Shan Siddiqi, M.D.</td>
<td>Harvard Medical School</td>
<td>Next-Generation Therapies</td>
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<td>Sandeep Singh, Ph.D.</td>
<td>Virginia Commonwealth University</td>
<td>Basic Research</td>
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<tr>
<td>Colenso Speer, Ph.D.</td>
<td>University of Maryland</td>
<td>Basic Research</td>
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<tr>
<td>Louisa Steinberg, M.D., Ph.D.</td>
<td>Columbia University</td>
<td>Diagnostic Tools/Early Intervention</td>
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<tr>
<td>Ashwini Tiwari, Ph.D.</td>
<td>McMaster University, Canada</td>
<td>Diagnostic Tools/Early Intervention</td>
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<tr>
<td>Chelsea Vadnie, Ph.D.</td>
<td>University of Pittsburgh</td>
<td>Basic Research</td>
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<tr>
<td>Matilde Vaghi, Ph.D.</td>
<td>University of London/University College London</td>
<td>Basic Research</td>
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<tr>
<td>Leandro Valiengo, M.D., Ph.D.</td>
<td>Universidade de São Paulo, Brazil</td>
<td>Next-Generation Therapies</td>
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<td>Alessandra Vergallito, Ph.D.</td>
<td>University of Milano Bicocca, Italy</td>
<td>Next-Generation Therapies</td>
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<td>Christian Wozny, M.D., Ph.D.</td>
<td>University of Strathclyde, Scotland, UK</td>
<td>Basic Research</td>
</tr>
<tr>
<td>Yao Wu, Ph.D.</td>
<td>Children's National Medical Center/Children's Research Institute</td>
<td>Next-Generation Therapies</td>
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<tr>
<td>Sanghee Yun, Ph.D.</td>
<td>University of Pennsylvania/Children's Hospital of Philadelphia</td>
<td>Basic Research</td>
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<td>Xian Zhang, Ph.D.</td>
<td>Cold Spring Harbor Laboratory</td>
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<td>Lauren Asarnow, Ph.D.</td>
<td>Stanford University</td>
<td>Next-Generation Therapies</td>
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</tbody>
</table>

**EATING DISORDERS**

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
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<td>Stanford University</td>
<td>Next-Generation Therapies</td>
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</table>

ANNUAL REPORT 2019
OBSESSIVE-COMPULSIVE DISORDER (OCD)

Matthew Hearing, Ph.D.
Marquette University
Basic Research

Christoph Kraus, M.D., Ph.D.
Medical University of Vienna, Austria
Next-Generation Therapies

Kai Miller, M.D., Ph.D.
Mayo Clinic College of Medicine, Minnesota
Next-Generation Therapies

Allison Waters, Ph.D.
Icahn School of Medicine at Mount Sinai
Next-Generation Therapies

Zeynep Yilmaz, Ph.D.
University of North Carolina at Chapel Hill
Basic Research

POST-TRAUMATIC STRESS DISORDER (PTSD)

Mariam Aly, Ph.D.
Columbia University
Basic Research

Jennifer Barredo, Ph.D.
Brown University
Next-Generation Therapies

Laura DeNardo, Ph.D.
University of California, Los Angeles
Basic Research

Yael Deri, Ph.D.
Stony Brook University
Basic Research

Gregory Fonzo, Ph.D.
Dell Medical School, University of Texas at Austin
Basic Research

Matthew Girgneti, Ph.D.
Yale University School of Medicine
Basic Research

Ann Hoffman, Ph.D.
University of California, Los Angeles
Basic Research

Munir Kutlu, Ph.D.
Vanderbilt University
Basic Research

Elizabeth Lucas, Ph.D.
North Carolina State University
Basic Research

Angela Mabb, Ph.D.
Georgia State University
Basic Research

David Root, Ph.D.
University of Colorado, Denver
Basic Research

Tomas Ryan, Ph.D.
Trinity College, Dublin, Ireland
Basic Research

Lindsay Schwarz, Ph.D.
St. Jude Children’s Research Hospital
Basic Research

Helen Schwerdt, Ph.D.
Massachusetts Institute of Technology
Basic Research

Andrey Shabalin, Ph.D.
University of Utah
Basic Research
Benjamin Suarez-Jimenez, Ph.D.
Columbia University/Research Foundation for Mental Hygiene, Inc./NYSPI
Basic Research

Ashwini Tiwari, Ph.D.
McMaster University, Canada
Diagnostic Tools/Early Intervention

Jon Willie, M.D., Ph.D.
Emory University/Emory University Hospital
Next-Generation Therapies

SCHIZOPHRENIA

Tim Bigdeli, Ph.D.
State University of New York, Downstate
Diagnostic Tools/Early Intervention

Urs Andreas Braun, M.D.
University of Pennsylvania
Basic Research

Catherine Brownstein, Ph.D., M.P.H.
Harvard University/Harvard Medical School
Basic Research

Yao Chen, Ph.D.
Washington University School of Medicine
Basic Research

Alexis Cullen, Ph.D.
King’s College London, UK
New Technologies

Senthilkumar Deivasigamani, Ph.D.
European Molecular Biology Laboratory, Germany
Basic Research

Kristen Delevich, Ph.D.
University of California, Berkeley
New Technologies

Antonio Fernandez-Ruiz, Ph.D.
New York University
Basic Research

Michael Francis, M.D.
Indiana University School of Medicine
Next-Generation Therapies

Matthew Hearing, Ph.D.
Marquette University
Basic Research

Philipp Homan, M.D., Ph.D.
Feinstein Institute for Medical Research/Northwell Health
Diagnostic Tools/Early Intervention

James Howard, Ph.D.
Northwestern University
Basic Research

Hailiang Huang, Ph.D.
Harvard University / Massachusetts General Hospital
Basic Research

Moshen Jamali, M.D., Ph.D.
Harvard University / Massachusetts General Hospital
Basic Research

Danique Jeurissen, Ph.D.
Columbia University
Basic Research

Daniel Joyce, Ph.D.
Stamford University
Next-Generation Therapies
New Technologies

Annie Kathuria, Ph.D.
Harvard University / Massachusetts General Hospital
Diagnostic Tools/Early Intervention

Madeleine Kyrke-Smith, Ph.D.
University of Utah
Basic Research

Johannes Larsch, Ph.D.
Max-Planck Institute of Neurobiology, Germany
Basic Research

Pierre Le Merre, Ph.D.
Karolinska Institutet, Sweden
Basic Research

Felix Leroy, Ph.D.
Columbia University
Basic Research

Devananand Manoli, M.D., Ph.D.
Gladstone Institutes/University of California, San Francisco
Basic Research

Jacquelyn Meyers, Ph.D.
State University of New York, Downstate
Basic Research

Ralda Nehme, Ph.D.
The Broad Institute at MIT and Harvard University
Basic Research

Jason Olivier, Ph.D.
Duke University
New Technologies

Thomas Papouin, Ph.D.
Washington University School of Medicine
Basic Research

Johannes Passecker, Ph.D.
Columbia University
Basic Research

Rui Peixoto, Ph.D.
University of Pittsburgh
Basic Research
New Technologies

Mu Qiao, Ph.D.
California Institute of Technology
Basic Research

Brian Rash, Ph.D.
Yale University
Basic Research

Can Ruan, Ph.D.
Capital University of Medical Sciences, Beijing Anding Hospital, People’s Republic of China
Diagnostic Tools/Early Intervention

Andrey Shabalin, Ph.D.
University of Utah
Basic Research

Tarjinder Singh, Ph.D.
Harvard University / Massachusetts General Hospital
Basic Research

Steven Sloan, M.D., Ph.D.
Emory University
Basic Research

Karuna Subramaniam, Ph.D.
Gladstone Institutes/University of California, San Francisco
Next-Generation Therapies

Jorien Treur, Ph.D.
University of Amsterdam, Netherlands
Basic Research

Thomas Vierbuchen, Ph.D.
Memorial Sloan-Kettering Cancer Center
Basic Research
Ross Williamson, Ph.D.
University of Pittsburgh
**Basic Research**

Zachary Wills, Ph.D.
University of Pittsburgh
**New Technologies**

Jingqi Yan, Ph.D.
Albert Einstein College of Medicine
**Basic Research**

Katherine Young, Ph.D.
King’s College London, UK
**Next-Generation Therapies**

**SUICIDE PREVENTION**

Jennifer Barredo, Ph.D.
Brown University
**Next-Generation Therapies**

Emily Diblasi, Ph.D.
University of Utah
**Basic Research**

Daniel Levey, Ph.D.
Yale University
**Diagnostic Tools/Early Intervention**

Jordan McCall, Ph.D.
Washington University
**Basic Research**

Mina Rizk, M.D.
Columbia University
**Basic Research**

Andrey Shabalin, Ph.D.
University of Utah
**Basic Research**

Sandeep Singh, Ph.D.
Virginia Commonwealth University
**Basic Research**

**BIOLOGY OF THE BRAIN**

(THOSE PROJECTS FOCUS ON HOW THE BRAIN WORKS.)

Chandramouli Chandrasekaran, Ph.D.
(Decision-Making)
Boston University
**Basic Research**

Stephanie Moon, Ph.D.
(White Matter Formation)
University of Colorado, Boulder
**Basic Research**

Brian Rash, Ph.D.
(Cortical Folding)
Yale University
**Basic Research**

Tomas Ryan, Ph.D.
(Memory Access)
Trinity College, Dublin, Ireland
**Basic Research**

Anindita Sarkar, Ph.D.
(Transposons and Stress)
Salk Institute for Biological Studies
**Basic Research**

Adam Snyder, Ph.D.
(Multi-scale Brain Activity)
University of Rochester
**Basic Research**

Maite Solas, Ph.D.
(Insulin Signaling)
University of Navarra, Pamplona, Spain
**Basic Research**

Andre Sousa, Ph.D.
(Brain Development)
Yale University
**Basic Research**

Colenso Speer, Ph.D.
(Circadian Regulation)
University of Maryland
**Basic Research**

Matthew Wright, M.D., Ph.D.
(Coping Response)
Stanford University
**Basic Research**

Sangjin Yoo, Ph.D.
(Neuronal Manipulation)
California Institute of Technology
**New Technologies**

**ALL DISORDERS**

(THOSE PROJECTS PERTAIN BROADLY TO ALL DISORDERS.)

Tan Hoang Nguyen, Ph.D.
(Cross-Disorder Trait Analysis)
Virginia Commonwealth University
**Basic Research**

**OTHER DISORDERS**

Alzheimer’s Disease
Thomas Papouin, Ph.D.
Washington University School of Medicine
**Basic Research**

Angelman Syndrome
Emmanuel Cruz-Torres, Ph.D.
New York University
**Basic Research**

Epilepsy
Christoph Kraus, M.D., Ph.D.
Medical University of Vienna, Austria
**Next-Generation Therapies**

Corinde Wiers, Ph.D.
National Institute on Alcohol Abuse & Alcoholism, NIH
**Next-Generation Therapies**

Jon Willie, M.D., Ph.D.
Emory University/Emory University Hospital
**Next-Generation Therapies**

Fragile X Syndrome
Karina Genaro, Ph.D.
University of California, Irvine
**Basic Research**

Jacque Pak Kan Ip, Ph.D.
Massachusetts Institute of Technology
**Basic Research**

Benjamin Kleaveland, M.D., Ph.D.
Whitehead Institute for Biomedical Research
**Basic Research**

Jingqi Yan, Ph.D.
Albert Einstein College of Medicine
**Basic Research**

Parkinson’s Disease
Christoph Kraus, M.D., Ph.D
Medical University of Vienna, Austria
**Next-Generation Therapies**
This evening recognized and honored the exceptional work of six outstanding young researchers who have received awards through the BBRF's Young Investigator Grant program.

The Klerman & Freedman 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**

**Nolan R. Williams, M.D.**
Stanford University
Wu Tsai Neurosciences Institute, Stanford Bio-X

**HONORABLE MENTIONS**

**Bo Cao, Ph.D.**
University of Alberta, Canada

**Sarah A. O. Gray, Ph.D.**
Tulane University

**ANNUAL FREEDMAN PRIZE FOR EXCEPTIONAL BASIC RESEARCH**

**Anna Victoria Molofsky, M.D., Ph.D.**
University of California, San Francisco
Weill Institute for Neurosciences

**HONORABLE MENTIONS**

**Erin S. Calipari, Ph.D.**
Vanderbilt University School of Medicine

**Dorothy Schafer, Ph.D.**
University of Massachusetts Medical School

Dr. Herbert Pardes presenting the Klerman & Freedman Awards.
STRIVING TOWARD CURES THROUGH RESEARCH
Dr. Anna Molofsky is an Assistant Professor in the Department of Psychiatry and the Weill Institute for Neurosciences at the University of California, San Francisco. The Molofsky lab studies synapses — the essential connections between nerve cells in the brain. In particular, the lab investigates the role of the immune system in helping synapses to form properly. While the immune system plays many healthy roles in the brain, inflammation caused by infection and brain injury can also increase the risk for some mental illnesses, including autism spectrum disorders, schizophrenia, and depression.

What is the current state of your BBRF-funded research?
When I was awarded my BBRF Young Investigator award, I was a brand-new investigator, with two people in my lab, investigating a new immune molecule that I hypothesized could impact synaptic connections between nerve cells in the brain. The studies that proved this hypothesis were published in the journal Science in 2018, and launched many new directions in our lab. Four years later, my group has 10 trainees all studying different ways by which the immune system impacts brain development, learning, and disease.

How do your interactions with people living with mental illness affect your research and vice-versa?
As a practicing psychiatrist and psychotherapist, I see how mental illness impacts my patient’s lives, and importantly, how it impacts their families, friends, and colleagues. The tools we already have to treat symptoms of mental illness have made a huge difference for many. However, I also see how much patients want to get better, and how difficult this can sometimes be. We need to do more, and I strongly believe that cures for mental illness will emerge from a deeper scientific understanding of the brain.

What has BBRF support meant to your career?
BBRF research has provided key funding to support my research exploring how the brain and immune systems interact. And since research can always go in many different directions (often following the funding), I think that being a part of the community of BBRF has helped me to keep the big picture of treating mental illness in mind.

In the best possible scenario, how would your work impact the people living with mental illness and their families?
My dream would be new treatments that promote the brain’s healthy ability to make new synaptic connections. These treatments could be combined with psychotherapy and other behavioral interventions to encourage stable and long-lasting positive changes in brain circuits.

“My BBRF grant provided seed funding to enable a new research direction as I was just starting my lab. This was crucial to the publication of my first senior-author paper and to obtaining additional independent funding. BBRF support enabled us to focus our future research on how the immune system shapes healthy brain development and how immune function is altered in mental illnesses.”
Dr. Nolan Williams is an Assistant Professor within the Department of Psychiatry and Behavioral Sciences and the Director of the Stanford Brain Stimulation Lab at Stanford University. Dr. Williams is working to understand how TMS can be used to treat depression, OCD, Tourette's Syndrome, and other mental illnesses, especially in people who haven't responded well to other therapeutic or pharmaceutical treatments.

**What is the current state of your BBRF-funded research?**
I was grateful to receive two BBRF Young Investigator awards. The first, in 2016, made possible research that I conducted to investigate the brain mechanisms through which the rapid-acting antidepressant, ketamine, exerts its therapeutic effects. This research pointed to a link to the body's opioid system. We were able to show that opioid receptor activation plays a significant role in the anti-suicidality effects of ketamine—the research for which I was honored with the Klerman Prize. Extensions of these initial findings have been funded by the NIH.

My second BBRF Young Investigator grant has led to another research paper that is being written up. This research concerns the use of a form of non-invasive brain stimulation called Stanford Accelerated Intelligent Neuromodulation Therapy (SAINT) as a rapid-acting antidepressant in people who haven't been helped by other forms of treatment. I have a NIMH Brains R01 grant pending for this work.

**How do your interactions with people living with mental illness affect your research and vice-versa?**
My interactions with people with mental illness are the interactions that shaped and defined my career. Pushing forward the idea that mental illnesses are illnesses of brain networks defines that work and helps those I work with to see their affliction in a different light.

“I am grateful to be mentored by several members of the Scientific Council including Mark George, Alan Schatzberg, and Rob Malenka. I very much hope to continue to help in the development of new therapies for treatment-resistant patients in the coming years.”

**What has BBRF support meant to your career?**
I'm most thankful for 2016 BBRF Young Investigator grant, which helped fund the launch of my lab. It has made possible the work that I have done thus far.

**In the best possible scenario, how would your work impact the people living with mental illness and their families?**
We are working to get a method we have developed termed SAINT onto psychiatric inpatient units to treat suicidal depression. Right now, only 1.5% of people who meet the eligibility criteria for electroconvulsive therapy (ECT) actually receive it. These are people typically who have not responded to multiple forms of conventional antidepressant therapy. ECT is often perceived as a last resort. Many eschew it for fear of its side effects, which can involve autobiographical memory loss for some. The other 98.5% of individuals who are eligible for ECT leave the hospital with the same medications that are available in outpatient clinics and no other biological treatments for their illnesses. So we are hopeful that our new treatment approach can reach and improve the lives of some of these people who are in pain. SAINT uses MRI scanning to guide an accelerated form of theta-burst TMS (brain stimulation), with the aim of generating a rapid antidepressant effect in these highly treatment-resistant patients.
STRIVING TOWARD CURES THROUGH RESEARCH
The symposium’s program was reflective of the greatly accelerating pace of discovery in mental health research as well as the expanded range of studies Brain & Behavior Research Foundation has grown to support.

The nine BBRF 2019 Outstanding Achievement Award winners shared new breakthroughs and insights on the use of rapid acting anti-depressants for treatment resistant depression, schizophrenia, ADHD, stigma, and cognitive neuroscience at this year’s symposium.

The event was moderated by Robert M. A. Hirschfeld, M.D. of the BBRF Scientific Council and drew more than 250 people.

Presentations included:

**Early Life Determinants of Schizophrenia & Other Psychiatric Disorders**

Alan S. Brown, M.D., M.P.H.
*Columbia University Irving Medical Center / New York State Psychiatric Institute*

**Thalamo-Cortical Interactions in Cognition**

Christoph Kellendonk, Ph.D.
*Columbia University Irving Medical Center / New York State Psychiatric Institute*

**Preventing Schizophrenia – ‘Thinking the Unthinkable’**

John J. McGrath, M.D., Ph.D.
*The University of Queensland / Queensland Centre for Mental Health Research*

**Decision Making & Neuropsychiatry: What Can We Learn from the Decisions We Make?**

James P. Kesby, Ph.D.
*The University of Queensland*

**The Shape of Discovery: Ketamine for Treatment Resistant Depression**

Dennis S. Charney, M.D.
*Icahn School of Medicine at Mount Sinai*

Following the lunch break, a keynote presentation, **New Thoughts About Mental Illness: Implications for Discovery & Treatment**, was given by the winner of the 2019 Pardes Humanitarian Prize in Mental Health, **William T. Carpenter, Jr., M.D.**, Professor of Psychiatry & Pharmacology at the *Maryland Psychiatric Research Center, University of Maryland School of Medicine*.

The symposium presentations then continued with:

**Resilient Brains: Adaptive Brain Mechanisms in Bipolar Disorder**

Sophia Frangou, M.D., Ph.D., F.R.C.Psych
*Icahn School of Medicine at Mount Sinai*

**Ketamine: Imagining New Ways to Treat Depression**

John H. Krystal, M.D.
*Yale University*

**Developmental Psychopathology & Stigma Reduction: A Synthesis**

Stephen P. Hinshaw, Ph.D.
*University of California, Berkeley / University of California, San Francisco*

**Harnessing Hippocampal Neurogenesis to Improve Cognition and Mood**

René Hen, Ph.D.
*Columbia University / New York State Psychiatric Institute*
Thank you to our Sponsors:

Dr. Robert Hirschfeld, Dr. Alan Brown, Dr. John Krystal, Dr. René Hen, Dr. John McGrath, Dr. Dennis Charney, Dr. James Kesby, Dr. Stephen Hinshaw, Dr. William Carpenter, Dr. Sophia Frangou, and Dr. Herbert Pardes

Dr. Jeffrey Borenstein and Stephen Lieber

Photos this page by Chad David Kraus

Dr. Robert M.A. Hirschfeld
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 of those facing mental health challenges, and bringing them the joy of living.

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.

In 2019 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.

WINNERS
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.

Dr. William T. Carpenter, Jr; Dr. Herbert Pardes; Cynthia Germanotta; and Dr. Jeffrey Borenstein.
Tipper Gore, advocate, artist, philanthropist and former Second Lady of the United States, was the speaker at the “Breaking the Silence About Mental Illness Luncheon,” which kicked off BBRF’s celebration of Mental Health Awareness Month.

The event, co-chaired by Carole Mallement and Virginia Silver, who are BBRF Board Members, along with Beth Elliot and Sheila Scharfman, was attended by more than 300 people.

The BBRF Luncheon series is designed to pay tribute to the brave people who are willing to speak candidly and personally about mental illness and use their experiences as an inspiration to galvanize all of the necessary resources needed to speak out, remove stigma, and break the silence about mental illness.

(Photo by Chad David Kraus Photography.)
“The goal of ‘Healthy Minds’ is to inspire conversations about mental illness and provide understandable information and resources for our viewers. People should not suffer in silence.”
– Dr. Jeffrey Borenstein

**BBRF Multimedia Programming**

In addition to supporting research, we believe it is crucial to share research findings with the public. Two ways that we work to educate the general public are through our television series, “Healthy Minds” with Dr. Jeffrey Borenstein, and our “Meet the Scientist” monthly webinar series.

“Healthy Minds,” demonstrates that with help, there is hope. The Emmy-nominated series aims to remove the stigma of mental illness, educate the public and offer a message of hope through personal stories and experts sharing the latest information on research, prevention, diagnosis and treatment.

The current season examined some of the most pressing public health issues including the latest research on anxiety, depression, chemical dependency and the opioid crisis, youth and the criminal justice system, and cultural sensitivity in mental health care.

**Listing of Season Six Episodes:**

- Treatment Resistant Depression & Rapid-Acting Antidepressants
- Transcranial Magnetic Stimulation (TMS)
- Anxiety In Children, Teens & Young Adults
- Youth Mental Wellness
- Stem Cell Research & Mental Health
- Chemical Dependency & the Opioid Epidemic

- Crisis Text Line
- Youth & The Criminal Justice System
- Minority Issues In Mental Health Care
- Intersection of Mental & Physical Health
- Helping People Who Are Homeless
- Resilience: The Science of Mastering Life’s Challenges

*Season 6 is available for viewing on the BBRF website.*

**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.*

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<td>J. John Mann, M.D.</td>
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<td>February 12, 2019</td>
<td>Early Detection and Prevention of Psychotic Disorders: Ready for “Prime Time”?</td>
<td>Jeffrey A. Lieberman, M.D.</td>
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<td>M. Camille Hoffman, M.D., MSc</td>
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<td>Michelle Pelcovitz, Ph.D.</td>
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<td>Changing the Way the World Thinks About Eating Disorders</td>
<td>Cynthia Bulik, Ph.D.</td>
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Your support this year enabled us to fund more than $15.2 million to leading scientists undertaking the challenges of brain and behavior research.

Since our founding in 1987, in partnership with donors around the world, BBRF has invested more than $408 million and funded more than 5,900 grants to more than 4,800 scientists worldwide.

We deeply appreciate and are inspired by all of our donor’s passion and commitment to advance psychiatric research.
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, with a primary emphasis to 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 that 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.

We are deeply honored to have received this generous and impactful gift.
PLAN YOUR FUTURE, SHAPE YOUR LEGACY

There are many ways to support the Brain & Behavior Research Foundation during your lifetime and one particularly meaningful way is through planned giving.

When you include BBRF as part of your legacy plan, you help ensure that our groundbreaking research continues.

Gifts which benefit the Foundation also personally benefit its donors by helping to fulfill important family and financial goals and ensure that our scientists will have the resources to continue making advances in mental health research, today and tomorrow.

“Marla and I donate to the Brain & Behavior Research Foundation in support of science and the hope of finding better treatments for mental illness.

Better treatments came too late for my brother, Stewart, who lost his battle with schizophrenia, and too late for my father, Ken, who suffered from depression. But we believe that with ongoing research, it will not be too late for millions of other people thanks to BBRF. We know this because we have seen the scientific breakthroughs and results that have come from funding scientists. Marla and I are dedicated to helping people who live with mental illness and doing what we can to be a part of the solution by our continued giving to BBRF.”

—Ken Harrison, Board Member

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

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 who have been selected by the BBRF Scientific Council to receive a grant can be chosen by a donor as a part of our Research Partners Program.

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

JAN ABRAMS
Jan Abrams Investigators

Young Investigator
Daniel Arthur Abrams, Ph.D.
Stanford University

Young Investigator
Eunice Y. Yuen, M.D., Ph.D.
Yale University

ANONYMOUS

Young Investigator
Desmond Jay Oathes, Ph.D.
University of Pennsylvania

ANONYMOUS

Young Investigator
Gustavo Adolfo Angarita, M.D.
Yale University

Young Investigator
Andre M. M. Sousa, Ph.D.
Yale University

BARBARA AND MICHAEL BASS
Barbara and Michael Bass Investigator

Young Investigator
Sarah E. Canetta, Ph.D.
Research Foundation for Mental Hygiene, Inc./NYSPI Columbia University

JANET AND DONALD BOARDMAN
Janet and Donald Boardman Investigator

Young Investigator
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A family member
A loved one
Dylan Abraham
Anne and Ronald Abramson
Claude Accum
Adam
Bekka Adams
Mary Adamski
Michael Adelman
Sophia Adey
Le Af
Roy and Paula Aguayo
Bill Aheron and Lisa Luth
The lovely people who contributed during Douglas J. Aldridge and friend’s musical performance.
Olivia Aleman
Emily Alexander
Leila Alizadehsaravi
All that suffer from Depression, Anxiety and Borderline Personality Disorder
Caitlynn Allen
Mark Aloise
Nicole Alyssa
Justin Ames
Amiera Amore
Bella Amore
Shawn and Priya Anand-Chawla
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Matthew Anderson
Stephanie Anderson’s daughter on her 18th birthday
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Richard Carlson
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Angela Carver
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Chaim, Ellie and Ari
Megan Chandler
Claire Chaney
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Maina Chen
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Cheryl and Patrick
Brie Childress
Laura Maloy Chinofsky
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Lauren Chong
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Theodore Chu
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Dana’s 50th Birthday
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Savanna Jones
Stephen S. Jones
John Joseph
Dan Junttinen
Garrett Justice
Dahla B. Kadri
Douglas Kahn
Michael Kahn
Sahaj Kamdar
Chayane Kangwanprasert
Genevieve Kara
Henry L. Karpf
Katrina and Jake
Amy Katz
Helga and Arthur Kasesh
Michaela Kay
Jason M. Keener
Jake Kelfer
Donna Kelly
Maura Kelly
Kaylin Kenders
Christy Kennedy
Patrick Kennedy
Madie Kenworthy
Danielle K. Kerr
Kevin
Keum and Kyung Kho
Andrew Kidd
Sean Kidd
Kids
Ryan Kieffer
Mary F. Kilduff
Stephani L. King
Peg Kirkey
Brian Kirkpatrick, M.D.
Michael Kirsic
Derrick Kiser
Jack Kiser
Amy Klaueke
Jeffrey Alvins Scott Klein
Robert Klein
Kohlman Klinge
Collin Klopfenstein
Stephen D. Knaze III
Madison Ko
Yukiko Koga
Mylan Kohler
Kalene Kosch
Phillip J. Koss
Bailey Kozbiel
Mikki Kragelund
Cindy Krantz
Katie Kranz
Lisa Kraus
Natalia Krause
Kelsey Krempasky
Howard and Shelley Kristol
Sharon Kritzer
Eugene Krom
KSAMF
Michael Kuban
Alexis Kuch
Justin Kuper
Inese Kushelman
Charlotte La Fair
Tara LaCross
Amira S. Lagerström
Hannah-Emilie Lahman
The Laitman Family (Team Daniel)
Meghan LaLande
Quincy Lamberg
Samantha Lamberg
Tabatha Lamberg
Ivett Lambert
Richard A. Lambert, Jr.
Joseph Lampert
Vegas Lancaster
Martin Langer
Quirk H. Langland
Charlotte Lankard
Conrad Larsen
Mason Larson
Bryan Lathrop
Joyce Laubach
Erin Laughlin
LeAnne Laughner
Jef Lawrence
Meredith Lawrence
The Lazar Families
Bao-Nghi Le
Scott Lebeau’s friend
Lee
Jessie Leffelman
Marvin Leichtung
Sam Lenius and Kacey Marton
Julie LeRoy
Danielle Letourneau-Clere
Angela Lewellen
Kris Lewis
Wendy Lichter
Stephen A. Lieber
The Liebermans: Andrea, Brandon, Eric and Jonathan
Mark Lieberman
Courtney Liette-Eliason
Jonas Lify
Alex Lilles
Lexzee Little
Mike Litvack
Yi Yi Liu
Ronald W. Livers
Audrey Livesey
Brittany Llewellyn and Nicholas Gordon
Steven Lodinsky
Honor Tributes (continued)

Fiona Logan
Sarah Lojczyc
Kaelby Lokrantz
Jonathan Lombardi
Jennie Lombardino
Simone Longoria G
Kevin W. Lou
Amanda Love
Daniel Lozares
Yi Lu
Alberto Luna
Nancy Luna
Rachel Luna
Max Luo
Omayra Luz
Erica Lyne
Toni Lynn
Daria Lysenko
Daniel Maahs
Ryan Macaluso
Kendyl MacConnell
R. A. Macdonald
P.J. MacGregor
Meagan Marie Madden
Theodore Madden
Eric Maddy
The Madiraju Family
Kate Madonia
Dana V. Maggi
Tate and Molly Magner
Carole H. Mallement
Madeline Maloney
Janelle Malta-Wilson
Jennifer Maltese
Milton and Tamar Maltz
Dr. Yael Holoshitz and Mr. Evan Mandel
Jason Manley
Jenny Manski
Katie Mapel
Steve Maren
Azia Marie
Becca Boo Marie
Stephanie Marie
Mark's Birthday
Miriam Marshall
Zac Marshall
Stella Martenis
Aaron Martin
Eric Martin
Julia N. Martin
Michele Martin
Paul Martino
Jackson Marx
Oscar Marx
The Magnificent Mary
Shelby Mastovich
Jennifer Mathews
Kahori Matsui
Adrian Mattheson
Matthew Mattoon
Mason S. Maulsby
Roselinath May
The Maybank Family
Allan T. McCall
Alison McCauley
Emily McClain
Edith McCloud
Madison McCloud
Monica McDaniel
Amanda K. McDonald
Alicia M. McElhone
Steve McFarland
Madeline McIntee
The McKenna Family
Reginald McKim
Christine McKinney
Corbett McKinney
Jeff McKnight
Dr. Michael McLeod
Patrick McWilliams
Maria Medel
Miguel Medel
Serena Meinke
Jacq Melbardis
Nick Melber
Jacob Meldrum
Frances Meltzer
Heidi Mendez
Mental Health and Substance Awareness
Christopher Merrelli
Rebecca Merriam
Emily Mesch
Rayetta Michael
Sarah Michaels
Kathleen Michelich
Ruth Michelich
Chloe Michelle
Melanie Michelson-Neumann
Jenn Milam
Josh Milberg
Celeste Miller
Julie Miller
Samantha Miller
Sonia Miller
Tamara Miller
Alyssa Mims
Lalaina Miner
Valerie Mister
Barbara Mitchell
Jacqueline Mitchell
Runa Mitra-Howard
Matthew Moellman
Stephanie Moles
Graham Molinaro
Robin Molly
Denise Montgomery
Anthony Moody
Keegan Moore
Matthew Moore
Emily A. Moos
Meghan Moran
Dr. Charles J. Morgan
Shannon and Larry Morgan
Anne Morgan-Pace
Elizabeth S. Morningstar
Katie Morris
Dr. Kefayah S. Morssy
Melissa Mortensen
Adrienne Most-Hennessey
Sean Motsch
Robin Moutray
A.J. Muir
John Murphy
Kara Murphy
Betty Murtagh
Edward Mythen
Dr. Lucette Nadle
Calvin Naftzinger
Grace Nagaur
Deepak Nair
David J. Nascone
Jessie Nashan-Ross
Nataline
Ilana Neenan
Davina Nelson
Lars Nelson
Sandra (Sandy) Nemtzow
Alexander Neufuss
Neuroscientists
Bob Newton
Brittney Nguyen
Jamie Nicole
Kristen Nicole
Katie Nikkel
Mary Niles
Will Noble
Ruby E. Noble-Evans' brother
Ariel Noel-Driver
Nolaespoi
Dallas Nolen
Joanne Noonan
Beth Norton
Jenna Nosal
Josh Nyman
Rob O'Brien
Russell O'Brien
Michael Obuchowski
Arron N. O'Callaghan and
Sean D.O. Smith
Honor Tributes (continued)

Michael A. Odorisio
Kenneth Ogren
Se-Hun Oh
Joshua D. Okun
Laura Olander
Ryan Olejar
Jennifer Olivaes
Bita Olyaei
Kitt O'Malley
Vinnie Ong
ONU Mens Soccer Team
Oliver Oppenheim
The Ornamental Hermit
Nieves A. Ortiz
Our Veterans
Tara Overzat
Jacob Oveson
Murwan Owais
Summer Owais
Ron Oweis
Becca Mae Owen
Deborah Owens
Duncan Page
Jennifer Paige
Hari Edgar Palacio
Diane Pantelas
Beth Paradisin
Dr. Herbert Pardes and Dr. Nancy Wexler
George Pariseau
Jae Park
Sydney Parker
Diane Parker-Ozolins
Ciaran Parkes
Ava Parr
Ione and James Parrish
Tira Parrish
Bhavik Patel
Ushma Patel
Jason Paul
Dr. Elisa Payne
Bertha Paz-Esquivel
Emily Pearson
Tami Pearson
Thomas Peduto
Eva Pelliccio
Sami Penie
Dr. David Penn-Soskin
Heather Perrigo
Amy Perrino
Katie Perry
Daniel Peterson
Simon Peterson
Stephanie Peterson
Michael Pham
Brennan Phillips
The Piccaro Family's daughter, Michele
Lilly Lavner and Ben Pierce
Shea Pierson
Elijah Piker
Mary Kaye Pinch-Allemond
Aaron Pittman
Carolyn A. Plumer
Shannon Podgorski
Chelsea Polizzi
Christina Pollet
Catherine Polovchak
Berlz Ponce
Jackson Pope
Meera A. Popkin-Tarack
Mr. and Mrs. Alex Popp
Ryan Port
Jeanne S. Porter
Dimitrios Potsos
Jenny Potter
Vinayak Prabhu
Adam and Jeanette Prestandrea
Chermaine Prior
Kristen Prior
Ciara Proznik
Leighanne Pryer-Reynolds
Stacie Pryor-Street
Amanda and Brian Pugh
Tristan A. Pulley
Jonathan Purowitz
Jeremy R. Purple
Zaskia Putri
Rene Quast
Chelsea Quinlan
Cynthia Quintanal
Mohammad A. Quraian
Radha
Catherine Rahm
Ajai Raj
Pasko Rakic, M.D., Ph.D.
Nikil Ramanathan
Nia Randall
Randy "The Rocket"
Liz Rau
Kelsey Rawson
Alan Ray
Saad Rayees
Julianna Rebecca
Kate Red-Herring
Dina Redmon
Frank "Bill" W. Reed
Nicole Reed
Gena Reed-Tadewald
David A. Reilly
Rosemarie Reilly
Natalie Renée
Ruth Renner
Brad Reuling
Janine Reyes
Kristin N. Reynolds
Barbara Reynolds-Lorek
Thandeekile-Melissa Rhoades
The Rhomberg Families
Lynn Ricardo
Rebekah Rice
Rex Richardson
Dr. Arthur Rifkin
La Danya Riggs
Conrad Rippy
Stephanie Riven and Roger Goldman
Clelia Rivera-Guinn
Min Jung Ro
Tessa Roberts
David Robertson
Josh Robichaud
Lissa R. Robinovitz's loved ones, friends
and colleagues
Tony Robins
Carolina Rocha
Kim Rock
Cristina Rod
Sophia Catalina Rodas
Suzy Rodgers
Gail Rodich
Alex Rodriguez, Jr.
Kelby Rogers
Kelly Rogers-Whittington
Adrienne J. Rogovin
Inessa Roman-Pogorzelskaya
Dr. Robert Ronis
Catalina Ronzon
Chelsea Roos
Christina Root
Giovanni Rosado
Alexandra Rose
Melissa Rose
Bob Rosen
Andrew Rosenberg
Marc Rosenmutter
Michael Ross
Linda Rossi
Brynda S. Roth
Dr. Richard Roth
Faith Rothblatt
Sage Rubeo
Gregg Rubin
Lauren Rubin
Alison and Liz Ruda McMahon
Douglas M. Ruderfer, Ph.D.
Katie Ruzanski
Andy Ryan
Hailey Ryan
Muhammad Saadi
Bernard Saint-Louis
Mary C. Salpukas
Honor Tributes (continued)

Ellen Salter
Glory A. Sandberg, M.D.
Charlotte Sanders and her son
Chris Sanders
Anna Sanderson
Enrique Santamaria
Carmen Santos
Raquel Santos
Sarah
Savar Sareen
Mark A. Satterthwaite, M.D.
Lauren Sawson
Mary Scarps-Duff
Alyssa Schaedler
William Scharf
Sheila Scharfman
Olivia Schmid
Stacy L. Schomacker-Franka
Kelsey Schroeppe1
Alli Schudalla
Andrew Schwartz
Anthony Sciarra1ta
Glen and Janet Seaman’s daughter
Rachel Seaquist
Tommy R. Searle and family
Marissa Catheryn Sebring
Alison Seeds
Grace Seeds
Kit Seeds
Laurie Seeds
Renee Segars
Anika Seidman-Gati
Mariel Seidman-Gati
Warren Sejud
Jessica Sendef
James Serbin
Sakshi Sethi
LINDSY Sexton
Saba Shadbiz
Sarah Shakespeare’s nephew, Kent
Mr. and Mrs. Marvin Shankerow
Daphney Sharp
Elizabeth Shatto
Liz Shay
Ann Sheehan
Maliha Shekhani
Meesh Shell
The members of the Shenandoah Clubhouse Valley Community Services Board (VCSB)
Donielle Shepard
Jonathan Sheppard
Laurel Shiba and Andrew Chung
Kimberly Shirk
Becca Shuman-O’Brien
Lilian Sicular
Farah Siddiqui
Renee Siegel-Rothwell
Debbie Silver
Jinny Silver
Lawrence Silver
Dr. and Mrs. Mark Silver
Dan and Linda Silverberg
Jenny Simmons
Geoffrey Simon
Nané Simon
Jordan Sinclair
Nathan Sindelar
Derek Sitter
Sandra Sj
Deborah Smith
Glen M. Smith
Kat Smith
Kendall Smith
Lexi Smith
Michael Smith
Natalie R. Smith
Richard and Sue Smith
Dr. Tiffany Smith
Angela Smith-Ness
Jane Smith-Roberts
Kelsey Snyder
Kaitlin So
Huan Song
Ron and Connie Sonnenburg
David Sosnow
Tracie Soto
Christopher Spalding
Alan Spandorf
Jessica Spangler-Taylor
Emily Spaulding
Allison Spear
Amy Spears
Tim Spears
Scott Spencer
Gina Spiridigliozi and Todd Lunter
Samantha Spitzer
Grace Springer
Katie Stangis
Rob Staples
Freda Starling
Dr. Jacqueline Stern-Bellowe
Nick Steven
The Stevenson Families
Jordan Stewart
Laura Stewart
Molly C. Stewart
Amy Tsiler and Jason Stipanov
Matthew Stolarick
Christine Stone
Jean L. Stone
Abbie Stoner
Lauren A. Strauser
Gregory Strauss, Ph.D.
Joe Strouth
Richard Stuart
Manda Sue
Ryan S. Sullivan
Michael Summers
Camille Sunde
Andrew Šveikauskas
SW
Beth Swallow
Meg Swant
Beth Swearingen
swoop3y
Mark Sypek
Mohammad Tabib
Nick Talisman
Matt Talley
Peter J. Tarr, Ph.D.
Laura Taylor
Matthew Terry
Gwen Thien
James C. Thies
Melissa Thill
Jamie Thomae
Kayla Thomas
Nathan Thomas
Nikki Thomas
Sydney Thomas
Ronald Thornton
Cindy Thorp-Beale
Those researchers dedicated to identifying the root causes of Bipolar Disorder.
Those who have suffered from being a victim of a traumatic past.
Christopher Timmis
Liv Tipton
Kristen Tizon
Linda Tjutja
Kristin Tocci
Bosworth M. Todd, Jr.
Emerson Tom
Alexandra Tomko
Kathee Tomlinson
Nikoleta Tomova
Tom’s Birthday
Allyson Tomsky
Isabella Ton
Fonda Tong
Vittorio and Maria Tosti
Marie Toy (for Levi)
Howard Trachtman
Alejandra Tresaco
Deborah Trybendis-Rau
Ya-Ju Tsai
Jami Tsames
Honor Tributes (continued)

Kamen Tsvetkov
Alex Tucker
Robin Turnbull-Huffmon
Hope Turner
David M. Unger
Amy Unvarsky
Susan E. Unvarsky
Martin Ureel
Bonnie C. Utter
Jillian Valdez
Brenda Van Horn
Lauren Vargas-Hungler
Veena A. Varki
Sam Vazzano
Katrina Vbb
The Vectorworks Cubeville Team
Deandra Vetter
Alejandra C. Vindas-Meléndez
Christine Vitello
Solachi Voz
Katie Wagner
Troy Wagner
Richard C. Wahlfeldt
Richard E. Wahlfeldt
Ashley Waldman
Jennifer Waldorf (j2jgamer)
Kathleen A. Walker
Ian Walker Kamp
Eclipse Wallace
Joice Wang
Jason Wann
Lynne Warberg
Tan War
Jordan Ward
Madison Warise
Natalie Warren-Kibler
Karen Watkins
Joni Weintraub
Robert and Frances Weisman
Morgan Weiss
Michele Weitz
Alyssa Welch
Catherine Welch
Sara Wenger
Brandalyn Marie Wenzel
Vanessa West-Comer
Rochelle Westerhaus
Laura Wanderling and Jim Westerman
Brentley Westward
Natalie Wethervell
The Wetzel Family
Heather Wexler
Mr. and Mrs. R. Graham White III
David A. White
Sean White
Kelley Whitson
Susan Whitt-Ewald
Rafi Whittum
Renny Widtum
Liesl A. Wiederkehr
Erica S. Williams-Tate
Ethan Willbrand
Christian Willenbacher
Kelvin Williams
Rebecca Williams
Shaina Wills
Morgan Wilson
Kara Winter
Debra Winton
Maureen H. Wirth
Megan Wiseman
Ria Wolf
Jonathan Wolfgram
Barb and Woody Woods
Tim “Splinr Tillio” Wright
Linda Wyckoff
Mike Yamanaka
Gregory Yannett
Jordan Yates
Lakshmi N. Yatham
John Yen
The Yenchik Family
Andria Yiasmin von Karr
P. Yogananda
Coleman Young
Yuri
Zachary Zafran
Julie Zaintz
Eleanor Zarski
Alex Zeigler
Levi Zelanko
Nina Zerr
Jeffrey Zhang
Dr. Eileen Zhivago
Tina O. Zhu
Kehaulani Ziegler
Raleigh Zimmerman
James F. Zolman
Dr. Nicholas F. Zolman
Scotty Zwang
Melvyn Abramsky
Sandy Ackermann
Trace Adams
Elizabeth Adams-Addorio
Cecilia J. Adamski
Yung Hei Ahn
Nihal Akar
Tom Aldridge
Stanley Alexander
All those who have been killed by a mentally ill individual.
Connor Allard
Janice M. Allison
Helen S. Amatangelo
Vincent S. Amorosso, Jr.
Matthew Anderson
Shirley A. Anderson's twin sister, Sharon
Silas E. Anderson
Susan K. Anderson
Robert W. Andrews
Mary E. Anger
Katherine Ansaldi
James E. Anson
Ziv Anukov
Alexandria A. Armstrong
Anthony “Tony” P. Arsneault
Carla Artopiades
Edward Arvey
Estelle Arvey
John Ascolese
Michael Atkinson
Elizabeth C. Attwood
Christopher J. Awn
John J. Awn, Jr.
William “Liam” P. Badalamenti
John D. Bailey, Sr.
Gregory T. Bak
Simon L. Baker
Thasarath Balasubramaniam
Scott Balgemann
Florence Balint
Edna Baltz
Robby Banuelos
Cynthia L. Barazowski-Kassel
Neil “The Warrior” Gregory Barber
Elizabeth S. Bardsley
Robert “Rob” J. Barlow
Dorothy G. Barraclough
John “Jack” Barrett
Michael S. Bartlett
Scott R. Bartlett
Brian A. Bass
Becky Batt
Dr. Michael Bauer
Matthew Beaney
Donald Beck
James Bell

Memorial Tributes

A close family friend who suffered from mental illness.

A Friend’s son
A loved one
Frances Abbott
Michael Abbott
Richard Hilstad “Hil” Lee Abbott
Dr. Tyson K. Abbott
Cory Abell
John “Jed” B. Abrams
Memorial Tributes (continued)

Sherrill Benjamin
Chester Charles Bennington (Linkin Park)
Ian Beran
Tim Bergling (Avicii)
Karen M. Bergstrom
Jonathan M. Berkowitz
Shoshana Bat Yisrael-Berkowitz
Daniel Berman
Patricia I. Berndt
Patrick J. Berrigan
David S. Berry
Paul Bertsch
Evan Bess
Elaine J. Bettencourt
Anthony Bevacqua
Brian A. Bezonsky
Kevin M. Bezonsky
Deepak Bhasin
Soujanya Bhumkar’s friend
Zach Bianchi
Mary Bieber
Powers Bilodeau’s friend
Stephen J. Binder
Edward “Ned” S. Bisshopp
Jessica K. Bitner
Biz
Marion F. Bjeldanes
Phyllis Blank
William A. Blee, M.D.
Heather A. Bleick
Bryan Bocanegra
Charles F. Bodden, Sr.
Andy Boffa
Kirk Boise
Karen M. Bolia
Tracy E. Bonneau
Jessie Boone
Holly Borday
David W. Borks
Timothy A. Boutwell
Walter J. Boyle
John E. Brader
Arlene Bradley
Eric Brady
Robert Branch
Kari Beth Brandon
Christopher D. Brehl
David Breuer
Stephen P. Brill
Andy Brisman
Catherine Brody
John W. Brooke
Brooke
John Brosnan
Daniel S. Brown

John Browning
Beverly Brownlee
Bruce Brownlee
Sarah Brown-Rowell
Adam D. Bruckner
Walter W. Bundschuh
Peter R. Bunning
Nick Buoncianti
Mary Ann Burfeind
Colleen M. Burke
Evan Busby
Valeri Bustamante’s cousin
Patrick T. Butters
John-Paul Cabrera-Crabb
Jeffery C. Cairns
Shirley Campbell-Nasby
Oscar Canavan
Aeric G. Cannon
Olegario Cantos II
Jeffrey T. Carlton
Connor Carr-Smith
Alexander Carsky-Bush
Hannah L. Casden
Richard M. Casey
Suzanne L. Castellani
Ping Chan
Eric Charlton
Scott M. Chauvin
Donald Cheney
Dale R. Cherney
Matthew Cherney
Wong Chung Ming Chiu
Allison A. Chlan-Fellner
Dorothy Chmiel
Therese A. Christian
Andrew S. Christie
Mary Cifarelli
Tommy Clancey
Phyllis A. Clark
Ruth G. Clark
Chris Cleary
Mary A. Clements
John J. Cockrell
Shirley Coffman
Jesse C. Cohen
Reuben D. Cole
Valerie Collar
Dorothy Collins
Patrick Collins
Manuel de Jesus Concepcion
Dianne M. Condon
Alexander B. Conley
Ray Conneely
Christopher J. Connelly
Ryan Connolly
Mamina Contreras
Jeffrey R. Cook

Ryan J. Cook
Stuart Cooper
Daniel C. Cooper, Ph.D.
David Cooper-Claire
Joseph B. Copeland, Jr.
Joseph B. Copeland III
Robert Coplen
Wilson Cory
Bradley T. Couch
Robert A. Courson
Michael Courtney
Christopher M. Cowan
Wallie Cowan
Kimberly Cox
Hunter Crane
Elyse Csillag
Maureen “Reenie” C. Daggett
Genevieve Dalglish
Scott D. Dalitzky
An Dang
Margaret M. Dann
Stanley F. Dann
Vincent A. Dann
Danny
Marc Darbyshire
Darlene and Kris
Brady Daulton
Narcisa David
Elizabeth Davis
Mary Davis
Terry A. Davis
A. Louise DeAngelis
Kasie Del Otero
Joshua R. Delbarker
Katherine Deschner
Emmett Desroches
Henry “Hank” J. Deutschendorf II
Della Mae Devaney
Diane
Lucy DiBella-Wilson
Ryan Dickey’s cousin
General Ian R. Dickinson
Nancy K. Dickson
William P. DiMichele
Jacqueline Dimmock, Ph.D.
Mary D. DiPietro
Kenneth Ditzel
Brandon Dixon
Viktor Djokovic
Debra Dobson
Ilya N. Dolce
Una G. Donnelly
Stephen Doochin
Liza M. Dorfman
August “Gus” E. Doskey
Isabelle Douglas
John L. Dourlaine
Memorial Tributes (continued)

Bryan S. Downey
Jessie Doyle
Rachel L. Drabenstott
Sandra G. Dreyfuss
Lorraine Dryden
Dr. Frank M. du Mas
John L. Duda
Jack E. Duffy
Christopher R. Dugan
Joseph F.X. Dugan
Anthony Dunn
Stephane R. Dupont
Rhonda L. Duszik
Patrick Easter
William R. Eaton
Ronald “Ronnie” O. Edwards
Dr. Gregory Eells
Sean T. Elkind
Francis Else-Mitchell
Karl J. Emerick, Jr.
Brandon Emery
Josiah Epps
Walter Epstein
Timothy J. Ertter
Paul J. Esposito
Catherine A. Etier
Sue Evans
Justin B. Evarian
Marian “Molly” Peabody Everdell
Guadalupe G. Falcon
Alison K. Farnsworth
Rita Feingold
Seymour Feinland
Charles H. Feldman
Elliot Feldman
Joan and Cyrus Feldman
Curtis L. Fenner
Marilyn Fenner
James “Alec” A. Fentum
Deborah J. Ferguson’s son
Theresa (Gaspar) Ferreira
Dyllon T. Feusi
Theodore Finch
Jonathan J. Fisher
Mark C. Fishler
Courtney Fitzgerald’s nephew
Brian Flick
Raymond J. Flood, Jr.
Trocars Flook
Pat Flowers
Helen T. Foley
James E. Foley
John P. Foley
Jessica A. Forbes
Charlton B. Forgotston

John Fox
Nette Fox
Lacey Fox-Dickson
Gail W. French
Harvey Friedenberg
Alan Friedman
Jason C. Frisco
Larry A. Fuller
Christopher Furay
George Gaelline III
Tracy A. Ganier
Christopher M. Garcia
Catina Gardner
Howard Gardner
Steven Garner
Garrett
Justin G. Gatton
Rene G. Gautreau
Rev. T. Edward Giles
Ted R. Giles
Matthew L. Gill
Zach Gillespie
Connie Giordano
Ian S. Girsch
Frank Giunta
John Gniechel
Brian D. Go
Dr. Patricia Goldman-Rakic
Zachary Golub-Rosen
Paul Goodman
Jim Goodrich
Ethel G. Gordon
Robert C. Gottheimer
Prof. Gilbert Gottlieb
Nadine Goyette
Frederick C. Grab
Tom Graf
Adam J. Grainawi
Annie Granger
Erika L. Grasmick
David E. Green
Michael Green
Elaine Greenblatt
Felice Greenfield
Mark J. Greenlee
Matthew J. Gregory
Paul Gresch, Ph.D.
George Grossman
Sheila Grossman-Ott
Suzanne R. Guerra
Thomas S. Gumport
Peter A. Gunness
Amanda G. Gurley
Evelyn Gutlaizer
Louis Gutlaizer
Patrick H.
Julie Haak’s brother

Victoria Haertel
Dante Hall
Eva Ham
Stephen Ham
Donald Hamm
Douglas Hamm
John Hanna
Matthew J. Hardin
Brett A. Harlow
Mary Harmon-Cole
Margaret Harrington
Michael V. Harrington
Stewart G. Harrison
Fred Hart
Gary E. Hart
Michael Heafield
Kevin J. Heald
Nicholas Healey
Brigid Healy
Jimmy Hehir
Bradley R. Heilman
Lillian A. Heise
Richard T. Heller
Jake Henebury
Gail V. Henry
Olive Hepner
Glen M. Hering
Lenore Hersen
Irene and Claude Hess
Brandy Heuston
Brian D. Hill
Daniel G. Hinden
Perry D. Hoffman, Ph.D.
Frances Hohman
Carolyn L. Holiday
Christopher C. Holmes
Corinne H. Holt
Dr. Philip S. Holzman
Lisa Honeycutt and her son
Christopher M. Horvath
Stephen M. Horvath
Dorothy Howell
Lucille Hrabcsak
John D. Huberty
Eva Hudak’s mother
Rennie E. Hughes
Arthur L. Hughett, M.D.
Alan N. Hundert
Larry D. Huskey
Darrell K. Hutchins
Sally Hutt-Nelson
Joseph Iacono
Naveed Iqball
Miscelle Ireland
J.S.
Joan L. Jackson
Ben Jacobson
Memorial Tributes (continued)

Prem Jajoo
Sabrina I. James
G. Reed Jameson
A friend's beloved mother, Joan
Joey
Hannah Johnson
Justin Johnson
Michael D. Johnson
Ryan P. Johnson
Suze Johnson
Todd Johnson's cousin
Wayne C. Johnson
Barbara L. Jonas
Ashley "A.J." O. Jones
Kim Jong-hyun
Beatrice Julo
Eduardo Juncosa
Andreas "Dre" P. Kahan
Jeffrey C. Kain
Bernard Kaminsky
Sean B. Kamp
Louis Kaplan
Nancy Karyo
Walter S. Katz
Claude R. Kaufman
Brian Kavanaugh
Steven Kay
Thomas M. Keiper
Jan Kellas
William G. Kelly III
Julia D. Kemp-Becker
James E. Kempf
Michael F. Kenigsberg
Timothy S. Kennell
Patrick W. Kenny
Rose Khom-Chea
David J. Kilcoyne
John S. Kim, M.D.
Young O. Kim
Ben Kimble
Linda Kinard-Boggs
Bonnie Jean Kiolbassa
Jill A. Kirby
Nick Kister
Doris M. Knapp
Christine Kohlstedt
Peter C. Kohn
John M. Komeski
Helen Kopsky
Brennan M. Kornak
Waine W. Korpela
Allan Korsakov
Diane A. Koskinas
Viola Kowalsky-Halver
Sandra J. Kownacki
Andrew Krafsur
John B. Kramer, Jr.
Kenneth Krasky
Ann E. Krieg
Joseph J. Kroepil, Jr.
Richard J. Kropac
Prof. Alan B. Krueger
Cris Ann (Miller) Hogan Krull
Anna Kubinski
Kendal A. Kucera
Ratna K. Kudaravalli
Francis P. Kulp
Murry Kusmin
Peter Kustikov
Robert LaBlanc
Victor M. LaFata
Meghan LaLande's friend
Keith Lamastro
Diane M. Lancaster
Laura E. Lancaster
Gloria G. Landon
Melissa A. Lanier
Lina M. Lanza
Carole Jean Laping
Mary Ann Lapinskas
Kevin J. Larsen
Scott Larsen
Jenna R. Laubach
Brendan L. Lauderdale
Robert E. Lauer
Elin Laughlin's family members
Lauren
Justin A. LaVenter
Megan Lavin
Jerome "Jerry" C. Lawrence
Larry Lawson
Leonard J. Lawson
Jack Leibush
Justin Leitner
Yefim Lenderman
Rina Lerner
Jim and Mary Ann Leschke
Nicholas M. Lesniak
Beatrice Levin
Michael S. Levine
Beverly Levinson-Spitzer
Joshua Levinstone
Dr. Joanne Levy
Scott A. Lewis
Sol Liber
Jacob Lichtenstein
Melita Lichtenstein
Constance E. Lieber
Samuel A. Lieber
Leslie Liebesman
Linda
James Lindenbaum
Jonathan "Johnny" B. Lindenberg
Hans K. Lindgren
Blair Listwan
Ronald E. Ljunggren
Donna M. Lloyd
John "Jack" S. Logue II
Greg London
Francis "Buddy" E. Long, Jr.
Hope Longo
Danielle M. Lorenz
Peter Lortie
Victor G. Lottmann
Basil L. Loudas
Dean Love
Betty Lou Lovejoy
Joanna Lowry
Sammy Loya
Michael Lucente
Robert B. Luchars, Jr.
Eugene "Gene" H. Luedy
Matthew M. Lugo
Stewart Lupton
Shirley S. Lynne
Barbara Lyons
Matthew C. Lyons
Catherine A. MacDonald
Noel A. Machado
Joseph Mack
Eleanor Mackey-Thomsen
Richard J. Maestranzi
Vincent V. Magi
Dr. Thomas J. Maher, Jr.
Olenka Maksimyw
Roman Makuch
Kirsten Malmstrom
Dr. Michael D. Mandel
Austin C. Manning
Elizabeth Manning
Mary M. Manning-Maynor
Dorothea Marcus
Alan G. Marer
Rahim S. Marian
Joshua Martin
Julia N. Martin's mother
Renato G. Martinez
Elizabeth Martino
Dolores Massey-Healy
Eugenia Mationg
Michael D. Mattoon
Thomas Matye
Travis Matye
Christian L. McCarty
Greg McCarty
Michael McClain
Samuel D. McCormick
William McDowell-Reader
Memorial Tributes (continued)

Sean McGarvey
James L. McGee
David McGibbon, Jr.
Elmer H. McGilvray
Felicity McGinnis
Brian McNinn
Myra J. McGoldrick
Ann McGrory
Marjorie A. McHarg
Shea McKenna
Olga C. McKew
John R. McClain, D.C.
Walter McNeil
Cathy McNish
David R. McPherson
Victor P. Medellin-Sterling
Linda Meek-Prine
Sincere Melvin
Dan Messier
Jacob W. Meyer
Elisabeth Z. Meyers
Daniel Michaels
Lauren Michaud
Apphia Michelich
Ronald Michelich
Lea S. Midkiff
Christopher F. Miehlisch
Mike and Winn
Joey Mikus
Charles E. Miller
Lori A. Miller
Lori Miller-Levine
Jonathon A. Minter
Mirna
Patrea Lee (Bowers) Miskimon
Duncan Mitchell
Neil Molberger
Gregory A. Monk
Juan “ojii” Manquís Montelibano
Jeffrey D. Moon
Jarad R. Moore
Maria “Lulu” de Luz Moore
Sherrod Moore
Vicki R. Moran
Hiram Morgan
Sean M. Morgan, Jr.
Anne Morgan-Face’s son, Darien
Derek Morris
Ryan P. Morris
Hughes G. Morton
Ellen Mosher
Rick Mosher
Richard D. Moszkowski
James Moylan
Patrick R. Muldoon
William E. Mullen
Andrew L. Munson
Wyatt L. Murchison
Kathleen Murphy
Monica Murphy
Thomas Murphy III
Patricia Murray
Roberta L. Myers
Seshavalli Nagavarapu
John Naiman
Sarah B. Nanyes
Aida G. Napolitano
Jon M. Nash
Barry Nathanson
Daryl S. Neave
Connor D. Neely
Paul E. Nelson
Gary Nesenson
Jeffrey Wen Fong Ng Wu
Ben Nguyen
Emma “Emmie” Kaja’s Marie Nicholas
Carol R. Nielsen
UC Davis Student: Noah
Amanda D. Nolan
Dennis H. Nolan, Sr.
Ann Norris
Reg Norris
Robin Nuse
Michael A. Odorizio’s father
Sean M. O’Hara
Jesse E. Ohlin
Susan Okun
Aaron D. Olander
Henry D. Olivence
Kerry E. Olivier
Ayodele Oluwadiya
Kelly O’Malley-Coogan
Eva Jean O’Neal
Cameron R. Orr
Melissa Osbeck
Barbara Osborn
Lyle Owens
Michelle P.
Rosa Y. Padilla-Seville
Lois T. Pagliaro
Carl Palisca
Albert L. Pan
Frank J. Paolella
Stephen M. Pappas
Peter E. Parisi
Josiah E. Parker III
William Parkinson
Sureka Parmar
Harry T. Parrish Jr.
Jessica Parrish
Gordhanbhai Patel
Betty J. Paykel
Anthony Peck
Dr. Arthur Peck
Eric Peffer
Samantha “Sam” Saint Aubyn
Peluso-Swartzlander
Susan Pence-Beaudry
Kathryn M. Pendleton
James Peralta
Sylvia Perceman
David J. Persik
Gregory S. Persik
George H. Peters
Brian Philippus
Lynn Phillips
Parker E. Philips II
Laris Pickett
Reed Puckus
Sybil Pierce
Arthur L. Podolsky
Robert M. Pollack
Lori Beth Pompan
Pat Powell
John Prentiss
Greg Price
Joel Pickett
Justin Provencher
Leighanne Pryer-Reynolds’ son
Suzanne Pullman
Bridge Pumphrey
Dylan Quast
Florence Quinn
John J. Quinn
R.M.
Pnina Rabinowitz
Arthur J. Radin, C.P.A.
Katherine Radler
Allison M. Ragusa
Lisa M. Raimondo-Nowell
Sundar Raj
Sidharth Ramakrishnan
Raymond Rando
Randolph
Keith Ranellone
Anthony F. Rankin
Margaret “Peg” Ransom
Devin P. Rattigan
Dr. Jacob P. Rayapati
Anthony M. Razziano
William Reader
John Reason
Brian E. Reese
Lance Reichenberger
Steven R. Reid II
Sheldon M. Rein
Diane Reinhardt-Smith
Samuel “Sam” D. Rendall
Michael Reschke
Memorial Tributes (continued)

Mark S. Reuling
Isaiah X. Reynolds
Reginald “Reg” J. Rhodes
Adele Riback
John J. Rice, M.D
Laura A. Rice
Jessica Rivers
Jonathon J. Robbins
Mark K. Robbins, M.D.
Trandl Robbins
David M. Robel
Jacob “Jake” A. Roberson
Betty G. Robertson
Steven G. Robinson
Devin Robledo
Rod
Thomas “Tom” L. Rodgers
Adrian D. Rodriguez
Leah Sue Rodriguez
Harold H. Rogovin
Sidney Rojo
Elizabeth Rolland
Charlie Romney
Brian Ronick
Tommy Rorick
Bob Rosen’s son
Zachery G. Rosen
Zack Rosen
Chris Ross
Mitchell S. Ross
Christina Rossi
Mike Rotch
Matthew S. Rothman
Joshua Rott
Aaron B. Roush, M.D.
William F. Rousseau
Roddrick Rucker
Michael P. Ruf
Ian M. Ruggles
Donald J. Rully
Madeline A. Ruocco
Joan S. Rush-Wagner
Jim Russell
Saint Anacletus (Cletus)
JoAnn B. Saint Dennis
Jennifer A. Salvito
Catherine Sanacora
Carol Sanchez
August Sancis
Lourdes M. Santos
Elijah L. Sarantakos
Jim Sartin
Melissa L. Saunders
Linda Schamp
Gregory M. Schatz
Terry Scheffler
Scott W. Scheurer
Christy Schimmel
Megan Schmidt
Mary Ann Schmidt-Bielawski
Paul Schoolfield
Lee R. Schoolmeesters
Ryan Schuchardt
Michael L. Schwartz
Ann Schwenk
Teresa A. Schwertner
Kelly Scruggs
Richard “Rich” Searle
Alison Seeds’ son
Grace Seeds’ brother
Laurie Seeds’ brother
Robert L. Segal, M.D.
Zbigniew Senk
Keith Sevick’s twin brother
Gary S. Sevitsky
Brandon Sewell
Pok Hui Shaffer
Shawn Shalek
Linda Shearin
Victoria Shemas
Edwin N. Sherr
Harriet Shetler
Sylvia Shick
Craig Shipley
Carol Shocket
Bernard Shyffer
Maria I. Sierra
Lucas R. Silvasi
Elaine Silverman
Sheldon Silverman
Mark Simek
Kevin Simms
Margery E. Simms
Marcia Simon-Kaplan
John T. Sinnott
Risa E. Skoletsky
Connor D. Slates
Dr. Donald E. Sloat
Nicholas “Nico” Smedley
Alison R. Smith
Benjamin E. Smith
Carol R. Smith
Charles F. Smith
Edmund Smith
Gregg R. Smith
Jeff Smith
Lexi Smith’s sister
Zachary R. Smith
Mary Smith-Lawrence
Chris E. Sorensen
Kelly L. Sorensen
Nathan A. Soukup
Brand Southwell
Peter Spacciapoli
Louis A. Spadaccini
Mary Sparks-Wooten
Jennifer Spears-Hammer
Jeffrey T. Sramek
Doretha St. Clair
Andrew St. Dennis
Jesse M. St. John
Samuel R. Stack
Ian J. Stancato
Brian A. Stapleton
John A. Stapleton
Andrew Starkey
Justin Stawinski
Brandon M. Steele
Marilyn D. Steinfeld, LCSW, MA, CGP
Brody Stevens
Donald F. Stieber, Jr.
Phillip Stiles
Steven G. Stingley
Kevin T. Stoddard
Evelyn Stoddard-Crane
Gary “Piedra” B. Stone
William J. Stone
Amy M. Strahan
Mary J. Strub-Caulkins
Bill Stuesse
Kenneth E. Stutzman
Michael D. Sugarman
Donald Summers
Jacob Suter
David M. Swoboda
Ernest Szeto
Andrew Taddy
Ganson P. Taggart
Jeffery R. Taillac
Lily Tanaka
Shobhit Taneja
Joyce Tate
H. Vonn Taylor
Jared Taylor
Gerald P. Tchir
Carole M. Teague
Shawn C. Temple
D. Thomas’ mother
Camilla “Cammie” L. Thompson
Tal Thompson
Sean Thornton
Thomas Thornton
Those that fought and lost their lives.
Nicholas Tindall
Ethel M. Toepel
Leanne Townsend
Dr. Eugene Trachtman
Jerry Traw
Samuel P. Trice
Getting the Word Out by Broadening Our Public Awareness and Connecting on Social Media

BBRF works to increase awareness about mental health among the general public and to provide hope that new and better psychiatric treatments are being developed by scientists globally. We maintain a strong social media presence in order to communicate and engage with people around the world.

**BBRF Website**

**In 2019:**
- More than 2 million pages were viewed on our website (+27%)
- More than 1 million people visited the website (+40%)
- More than 420,000 people browsed the research articles published online

Monthly blog posts authored by Dr. Jeffrey Borenstein appear on the BBRF website blog such as:

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76 ANNUAL REPORT 2019
The all-volunteer Foundation Scientific Council is composed of leading experts across disciplines in brain & behavior research who review grant applications and recommend the most promising ideas to fund.

181 ACTIVE SCIENTIFIC COUNCIL MEMBERS (AND 12 EMERITUS MEMBERS)

The group includes:

- 54 Members of the National Academy of Medicine
- 41 Department & Program Chairs
- 16 National Institute of Health Chiefs & Directors
- 11 Members of the National Academy of Sciences
- 4 Recipients of the National Medal of Science
- 3 Directors of the National Institute of Mental Health
- 1 Nobel PrizeWinner
# Consolidated Statement of Financial Position

<table>
<thead>
<tr>
<th></th>
<th>DECEMBER 31, 2019</th>
<th>DECEMBER 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>$8,063,589</td>
<td>$5,850,675</td>
</tr>
<tr>
<td>Investments, at fair value</td>
<td>19,797,453</td>
<td>14,957,266</td>
</tr>
<tr>
<td>Contributions receivable</td>
<td>139,805</td>
<td>708,183</td>
</tr>
<tr>
<td>Pledges receivable, current portion</td>
<td>2,210,000</td>
<td>2,010,000</td>
</tr>
<tr>
<td>Prepaid expenses and other assets</td>
<td>72,644</td>
<td>89,385</td>
</tr>
<tr>
<td><strong>Total Current Assets</strong></td>
<td><strong>30,283,491</strong></td>
<td><strong>23,615,509</strong></td>
</tr>
<tr>
<td>Assets held in charitable remainder trusts</td>
<td>1,500,421</td>
<td>1,287,823</td>
</tr>
<tr>
<td>Fixed assets, net</td>
<td>25,053</td>
<td>38,546</td>
</tr>
<tr>
<td>Pledges receivable, net-less current portion</td>
<td>6,263,110</td>
<td>3,817,651</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td><strong>$38,072,075</strong></td>
<td><strong>28,759,529</strong></td>
</tr>
<tr>
<td><strong>LIABILITIES AND NET ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Liabilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>$79,548</td>
<td>$60,639</td>
</tr>
<tr>
<td>Grants payable</td>
<td>19,481,669</td>
<td>19,863,771</td>
</tr>
<tr>
<td>Accrued compensation</td>
<td>100,258</td>
<td>102,095</td>
</tr>
<tr>
<td>Annuities payable</td>
<td>767,679</td>
<td>680,513</td>
</tr>
<tr>
<td>Charitable gift annuities payable</td>
<td>172,450</td>
<td>181,616</td>
</tr>
<tr>
<td><strong>Total Liabilities</strong></td>
<td><strong>20,601,604</strong></td>
<td><strong>20,888,634</strong></td>
</tr>
<tr>
<td><strong>Net Assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net assets without donor restrictions</td>
<td>8,410,779</td>
<td>2,957,395</td>
</tr>
<tr>
<td>Net assets with donor restrictions</td>
<td>9,059,692</td>
<td>4,913,500</td>
</tr>
<tr>
<td><strong>Total Net Assets</strong></td>
<td><strong>17,470,471</strong></td>
<td><strong>7,870,895</strong></td>
</tr>
<tr>
<td><strong>Total Liabilities and Net Assets</strong></td>
<td><strong>$38,072,075</strong></td>
<td><strong>$28,759,529</strong></td>
</tr>
</tbody>
</table>

* The Foundation’s complete audited financial statements are available on our website.
### Consolidated Statement of Activities

<table>
<thead>
<tr>
<th>SUPPORT AND REVENUE</th>
<th>YEAR ENDED DECEMBER 31, 2019</th>
<th>YEAR ENDED DECEMBER 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions</td>
<td>$16,069,353</td>
<td>$15,556,817</td>
</tr>
<tr>
<td>Special events, net</td>
<td>345,041</td>
<td>381,244</td>
</tr>
<tr>
<td>Contribution of services</td>
<td>1,977,786</td>
<td>1,908,417</td>
</tr>
<tr>
<td>Bequests</td>
<td>9,206,115</td>
<td>2,330,941</td>
</tr>
<tr>
<td>Net realized and unrealized gains (losses) on investments</td>
<td>3,734,593</td>
<td>(450,793)</td>
</tr>
<tr>
<td>Net appreciation (depreciation) of assets held in charitable remainder trusts</td>
<td>212,598</td>
<td>(178,707)</td>
</tr>
<tr>
<td>Dividend and interest income</td>
<td>239,655</td>
<td>280,034</td>
</tr>
<tr>
<td><strong>Total Support and Revenue</strong></td>
<td><strong>31,785,141</strong></td>
<td><strong>19,827,953</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENSES</th>
</tr>
</thead>
</table>

#### Program Services

<table>
<thead>
<tr>
<th>Program Services</th>
<th>YEAR ENDED DECEMBER 31, 2019</th>
<th>YEAR ENDED DECEMBER 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research grants and awards</td>
<td>14,797,331</td>
<td>14,052,583</td>
</tr>
<tr>
<td>Scientific advancement</td>
<td>2,268,335</td>
<td>1,986,729</td>
</tr>
<tr>
<td>Program support</td>
<td>2,487,570</td>
<td>2,530,355</td>
</tr>
<tr>
<td><strong>Total Program Services</strong></td>
<td><strong>19,553,236</strong></td>
<td><strong>18,569,667</strong></td>
</tr>
</tbody>
</table>

#### Supporting Services

<table>
<thead>
<tr>
<th>Supporting Services</th>
<th>YEAR ENDED DECEMBER 31, 2019</th>
<th>YEAR ENDED DECEMBER 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundraising**</td>
<td>889,015</td>
<td>908,528</td>
</tr>
<tr>
<td>Administration**</td>
<td>1,743,314</td>
<td>1,758,414</td>
</tr>
<tr>
<td><strong>Total Supporting Services</strong></td>
<td><strong>2,632,329</strong></td>
<td><strong>2,666,942</strong></td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>22,185,565</strong></td>
<td><strong>21,236,609</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change in Net Assets</th>
<th>YEAR ENDED DECEMBER 31, 2019</th>
<th>YEAR ENDED DECEMBER 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Assets, beginning of year</td>
<td>7,870,895</td>
<td>9,279,551</td>
</tr>
<tr>
<td><strong>Net Assets, end of year</strong></td>
<td><strong>$17,470,471</strong></td>
<td><strong>$7,870,895</strong></td>
</tr>
</tbody>
</table>

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