

BRAIN & BEHAVIOR RESEARCH FOUNDATION

2019 ANNUAL REPORT

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



Awarding **NARSAD** Grants

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.

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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.

30+
years

For more than 30 years the Brain & Behavior Research Foundation has fostered new research pathways and transformative breakthroughs.

70k+
donors

Our 70,000 donors have joined together in the great challenge of modern medical science — overcoming mental illness.

\$408M+
awarded

Since 1987 the Foundation has awarded more than \$408 million to fund more than 5,900 grants.

4,800+
researchers

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.



Jeffrey Borenstein, M.D.
President & CEO



Herbert Pardes, M.D.
President, Scientific Council



Stephen A. Lieber
Chair, Board of Directors

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.

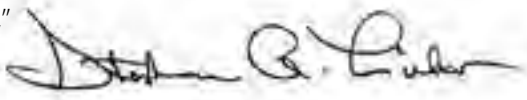
Sincerely,



Jeffrey Borenstein, M.D.
President & CEO



Herbert Pardes, M.D.
President, Scientific Council



Stephen A. Lieber
Chair, Board of Directors

Innovative
scientists. Novel
ideas. Cutting edge
technology.

Important Advances Funded Through BBRF Grants



“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)

2016

Metabolism and Depression

Dr. Lisa Pan and colleagues discover that treating metabolic problems can dramatically lessen symptoms in some patients with treatment-resistant depression.

2015

Stem-Cell Technology and Autism Research

Dr. Flora Vaccarino shows that brain “organoids” grown from reprogrammed skin cells sampled from autism patients can recapitulate developmental flaws associated with autism.

2015

Coordinated Care Can Make a Big Difference in Schizophrenia

Drs. Nina Schooler and Tim Mueser and colleagues provide strong clinical evidence that early intervention and coordinated team care can make a real, positive difference in outcomes for first-episode psychosis patients.

2009

Thinning of Brain’s Right Hemisphere is Linked to Depression Risk

Dr. Myrna Weissman and colleagues discover this in one of the largest-ever imaging studies of depression.

2016

Gut Microbes as Possible Treatments for Stress-Related Illness

Dr. Christopher Lowry and colleagues show that mice could be treated with immune system-regulating gut bacteria to boost their immune system against the harmful impact of stress.

2015

Predicting Suicide Risk

Dr. J. John Mann and team show that parents’ history of suicide attempts can be used to predict suicide risk in their children.

2013

Using Stem Cells to Make Brain Cells

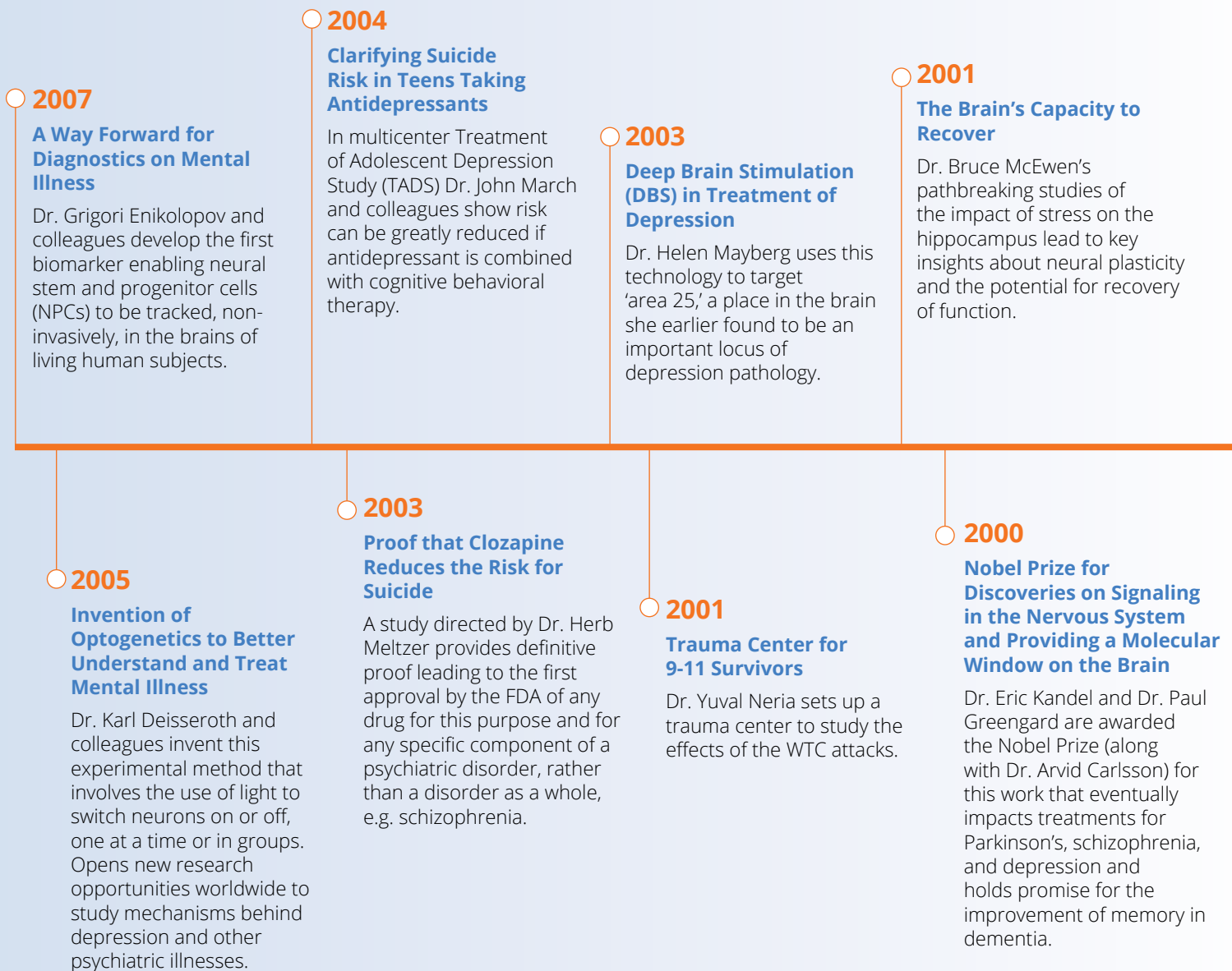
Dr. Stuart Anderson and colleagues induce stem cells to redevelop as cortical interneurons, a milestone in research to study brain pathology using cells sampled from people with psychiatric disorders.

2008

FDA Approval of Transcranial Magnetic Stimulation (rTMS) as Non-Invasive Alternative to Electroconvulsive Therapy

Dr. Mark George and colleagues publish research paving the way to FDA approval for rTMS treatment in certain patients with severe, treatment-resistant depression.

Important Advances Funded Through BBRF Grants



"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)

2000

Transcranial Magnetic Stimulation for Treatment of Depression

Dr. Mark George reports on development of this new kind of non-invasive brain stimulation as an alternative to electroconvulsive therapy.

1998

Identification of Shared Susceptibility Genes in Bipolar Disorder and Schizophrenia

Dr. Elliot Gershon and others report on and assess evidence of shared susceptibility genes.

1993

Identification of Risk Factors for Depression

Dr. Jane Costello and colleagues initiate the Great Smoky Mountain Study which helps reveal which young people tend to get mental illness, how useful treatments are, and promising directions for future research and treatment.

1989

FDA Approval of the 2nd-Generation Antipsychotic Drug Clozapine for Treatment-Resistant Schizophrenia

Studies by Dr. Herbert Meltzer lead to this development.

1999

Medication Plus Therapy Improves Results in Children with ADHD

A large multicenter clinical trial called MTA (Multimodal Treatment for ADHD) directed by Dr. John March and others shows that children who receive drugs and therapy usually fare best.

1996

Diagnostic Screen for Prevention of Teen Suicide

Dr. David Shaffer confirms that most teen suicides occur in the context of psychiatric illness and creates the Columbia Teen Screen, soon adopted nationwide.

1991

PET and MRI Functional Imaging Studies

Dr. Helen Mayberg begins pioneering functional imaging studies in neuropsychiatric disorders and develops an influential model of depression.

1988

Identification of Risk Factor for Adolescent Suicide

Dr. David Brent helps establish mood disorders, substance abuse, impulsive aggression, parental suicidal behavior, and access to guns as significant risk factors.

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

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Richard J. Miller, Ph.D.

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Bitá Moghaddam, Ph.D.

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Philip Seeman, M.D., Ph.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

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.



M. Camille Hoffman, M.D.

University of Colorado Denver School of Medicine

2015 Baer Prize

Journal of Pediatrics, May 2019

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 pre-school 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

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.



April R. Levin, M.D.

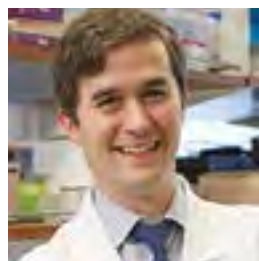
*Harvard University, Boston
Children's Hospital*

2016 BBRF Young Investigator.

Nature Communications,
September 2019

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

BBRF Scientific Council,
2007 Falcone Prize, 2002 BBRF
Distinguished Investigator,
1995 Independent Investigator,
1991 Young Investigator

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 Grants: The Way Forward to Advances & Better Treatments

SINCE 1987



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:

Research Categories

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 in 2019

943
YOUNG
INVESTIGATOR
APPLICATIONS

200
YOUNG
INVESTIGATOR
GRANTS
AWARDED

\$13.8
MILLION AWARDED
IN YOUNG
INVESTIGATOR
GRANTS

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

Maxime Assous, Ph.D.

Rutgers University
Basic Research

Gerard Beaudoin, III, Ph.D.

Trinity University
Basic Research

Erin Campbell, Ph.D.

Florey Institute of Neuroscience and
Mental Health, Australia
Diagnostic Tools/Early Intervention

Daniel Christoffel, Ph.D.

Stanford University
Basic Research

Luis Colon Perez, Ph.D.

University of California, Irvine
Diagnostic Tools/Early Intervention

Gregory Corder, Ph.D.

University of Pennsylvania
Basic Research

Johannes de Jong, Ph.D.

University of California, Berkeley
Basic Research

Hanan El Marroun, Ph.D.

Erasmus University Medical Center,
Netherlands
Basic Research

Kyle Flippo, Ph.D.

University of Iowa Hospitals and Clinics
Basic Research

Felicity Gore, Ph.D.

Stanford University
Basic Research

Matthew Hearing, Ph.D.

Marquette University
Basic Research

Alexander Herman, M.D., Ph.D.

University of Minnesota
Next-Generation Therapies

Andrea Hobkirk, Ph.D.

Pennsylvania State University
Diagnostic Tools/Early Intervention

Danique Jeurissen, Ph.D.

Columbia University
Basic Research

Erica Jung, Ph.D.

University of Illinois at Chicago
Basic Research

Angela Mabb, Ph.D.

Georgia State University
Basic Research

Philipp Mews, Ph.D.

Icahn School of Medicine at Mount Sinai
Basic Research

Jacquelyn Meyers, Ph.D.

State University of New York, Downstate
Basic Research

Daniela Neuhofer, Ph.D.

Medical University of South Carolina
Basic Research

Greg Perlman, Ph.D.

Stony Brook University School of Medicine
Diagnostic Tools/Early Intervention
New Technologies

Mina Rizk, M.D.

Columbia University
Basic Research

Samantha Scudder, Ph.D.

University of California, Santa Barbara
Basic Research

Alessandra Vergallito, Ph.D.

University of Milano Bicocca, Italy
Next-Generation Therapies

Corinde Wiers, Ph.D.

National Institute on Alcohol Abuse &
Alcoholism, NIH
Next-Generation Therapies

Hideaki Yano, Ph.D.

National Institute on Drug Abuse, NIH
Basic Research

ATTENTION-DEFICIT HYPERACTIVITY DISORDER (ADHD)

Mariam Aly, Ph.D.

Columbia University
Basic Research

Weidong Cai, Ph.D.

Stanford University
Basic Research

Kimberly Chiew, Ph.D.

University of Denver
Basic Research

Supriya Ghosh, Ph.D.

University of Chicago
Basic Research

Rachel Lean, Ph.D.

Washington University School of Medicine
Basic Research

Claudia Lugo-Candelas, Ph.D.

Columbia University/Research
Foundation for Mental Hygiene/NYSPI
Basic Research

Joanna Martin, Ph.D.

Cardiff University, UK
Basic Research

Fabian Munoz Silva, Ph.D.
Columbia University
 [Next-Generation Therapies](#)
 [New Technologies](#)

Adele Stewart, Ph.D.
Florida Atlantic University
 [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](#)
 [Diagnostic Tools/Early Intervention](#)

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](#)

Ciaran 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.

University of Colorado, Boulder

 **Diagnostic Tools/Early Intervention**

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

University of Pittsburgh

 **Diagnostic Tools/Early Intervention**

Kristen Haut, Ph.D.

Rush University Medical College

 **Basic Research**

Philipp Homan, M.D., Ph.D.

Feinstein Institute for Medical Research / Northwell Health

 **Diagnostic Tools/Early Intervention**

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.

Vanderbilt University

 **Basic Research**

Jessica Lipschitz, Ph.D.

Harvard University / Brigham and Women's Hospital

 **Diagnostic Tools/Early Intervention**

 **New Technologies**

Amanda Lyall, Ph.D.

Harvard Medical School

 **Basic Research**

Ralda Nehme, Ph.D.

The Broad Institute at MIT / Harvard University

 **Basic Research**

Brian Rash, Ph.D.

Yale University

 **Basic Research**

Marcos Santoro, Ph.D.

Universidade Federal de Sao Paulo, Brazil

 **Diagnostic Tools/Early Intervention**

Andrey Shabalin, Ph.D.

University of Utah

 [Basic Research](#)

Yasuyuki Shima, Ph.D.

RIKEN Brain Science Institute, Japan

 [Basic Research](#)

Chelsea Vadnie, Ph.D.

University of Pittsburgh

 [Basic Research](#)

Thomas Vierbuchen, Ph.D.

Memorial Sloan-Kettering Cancer Center

 [Basic Research](#)

BORDERLINE PERSONALITY DISORDER

Laura DeNardo, Ph.D.

University of California, Los Angeles

 [Basic Research](#)

Emily Finn, Ph.D.

National Institute of Mental Health, NIH

 [Diagnostic Tools/Early Intervention](#)

Angela Mabb, Ph.D.

Georgia State University

 [Basic Research](#)

DEPRESSION

Jessica Ables, M.D., Ph.D.

Icahn School of Medicine at Mount Sinai

 [Basic Research](#)

Azmeraw Tayelgn Amare, Ph.D.

University of Adelaide, Australia

 [Basic Research](#)

 [New Technologies](#)

Lauren Asarnow, Ph.D.

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 [Next-Generation Therapies](#)

Jennifer Barredo, Ph.D.

Brown University

 [Next-Generation Therapies](#)

Venkat Bhat, M.D., M.Sc., FRCPC

University of Toronto, Canada

 [Next-Generation Therapies](#)

 [New Technologies](#)

Jeremy Borniger, Ph.D.

Stanford University

 [Basic Research](#)

Catherine Brownstein, Ph.D., M.P.H.

Harvard University/Harvard Medical School

 [Basic Research](#)

Nadia Cattane, Ph.D.

IRCCS Centro San Giovanni di Dio

Fatebenfratelli, Italy

 [Basic Research](#)

Robin Chan, Ph.D.

Virginia Commonwealth University

 [Basic Research](#)

Natali Chanaday Ricagni, Ph.D.

Vanderbilt University

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Daniel Christoffel, Ph.D.

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 [Basic Research](#)

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University of Buenos Aires, Argentina

 [Basic Research](#)

Laura DeNardo, Ph.D.

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 [Basic Research](#)

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- CNRS/University of Bordeaux, France

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Natalia Duque-Wilckens, D.V.M., Ph.D.

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Claudia Espinosa-Garcia, Ph.D.

Emory University

 [Basic Research](#)


Emily Finn, Ph.D.

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 [Diagnostic Tools/Early Intervention](#)

Bharathi Gadad, Ph.D.

Texas Tech University Health Sciences Center

 [Basic Research](#)

 [New Technologies](#)

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University of Toronto, Canada

 [Diagnostic Tools/Early Intervention](#)

Felicity Gore, Ph.D.

Stanford University

 [Basic Research](#)

Hanne Hansen, Ph.D.

Harvard University / Massachusetts General Hospital

 [Next-Generation Therapies](#)

Matthew Hearing, Ph.D.

Marquette University

 [Basic Research](#)

Melissa Herman, Ph.D.

University of North Carolina at Chapel Hill

 [Next-Generation Therapies](#)

Philipp Homan, M.D., Ph.D.

Feinstein Institute for Medical Research/

Northwell Health

 [Diagnostic Tools/Early Intervention](#)

Nicholas Hubbard, Ph.D.

Massachusetts Institute of Technology

 [Diagnostic Tools/Early Intervention](#)

Rainbo Hultman, Ph.D.

University of Iowa

 [Basic Research](#)

Daniel Joyce, Ph.D.

Stanford University

 [Next-Generation Therapies](#)

 [New Technologies](#)

Yuki Kageyama, M.D., Ph.D.

Weill Cornell Medical College

 [Basic Research](#)

Janine Knauer-Arloth, Ph.D.

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](#)

Laura Lewis, Ph.D.
Boston University
Basic Research
New Technologies

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

Erika Manczak, Ph.D.
University of Denver
Basic Research

Merry Mani, Ph.D.
University of Iowa
Next-Generation Therapies

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

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

Jordan McCall, Ph.D.
Washington University
Basic Research

Giorgia Michelini, Ph.D.
Stony Brook University
Diagnostic Tools/Early Intervention

Jean-Philippe Miron, Ph.D.
University of Toronto, Canada
Next-Generation Therapies

Laurel Morris, Ph.D.
Icahn School of Medicine at Mount Sinai
Next-Generation Therapies

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

Carla Nasca, Ph.D.
The Rockefeller University
Diagnostic Tools/Early Intervention

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

Kieran O'Donnell, Ph.D.
Douglas Mental Health University Institute, Canada
Diagnostic Tools/Early Intervention

Jason Oliver, Ph.D.
Duke University
New Technologies

Jocelien Olivier, Ph.D.
University Medical Center Groningen, Netherlands
Basic Research

Alexey Ostroumov, Ph.D.
University of Pennsylvania
Basic Research

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

Catherine Pena, Ph.D.
Princeton University
Basic Research

Roseann Peterson, Ph.D.
Virginia Commonwealth University
Diagnostic Tools/Early Intervention

Juliet Richetto, Ph.D.
Brain Research Institute, University of Zurich, Switzerland
Basic Research

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

Shogo Sato, Ph.D.
University of California, Irvine
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

Shan Siddiqi, M.D.
Harvard Medical School
Next-Generation Therapies

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

Colenso Speer, Ph.D.
University of Maryland
Basic Research

Louisa Steinberg, M.D., Ph.D.
Columbia University
Diagnostic Tools/Early Intervention

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

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

Matilde Vaghi, Ph.D.
University of London/University College London
Basic Research

Leandro Valiengo, M.D., Ph.D.
Universidade de São Paulo, Brazil
Next-Generation Therapies

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

Christian Wozny, M.D., Ph.D.
University of Strathclyde, Scotland, UK
Basic Research

Yao Wu, Ph.D.
Children's National Medical Center/
Children's Research Institute
Next-Generation Therapies
New Technologies

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

Sanghee Yun, Ph.D.
University of Pennsylvania/Children's Hospital of Philadelphia
Basic Research

Xian Zhang, Ph.D.
Cold Spring Harbor Laboratory
Basic Research

EATING DISORDERS

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

Daniel Christoffel, Ph.D.

Stanford University
IDCIE Basic Research

Dawn Eichen, Ph.D.

University of California, San Diego
IDCIE Next-Generation Therapies

Felicity Gore, Ph.D.

Stanford University
IDCIE Basic Research

Yuanzhong Xu, Ph.D.

University of Texas Health Science Center
at Houston
IDCIE Basic Research

Zeynep Yilmaz, Ph.D.

University of North Carolina at Chapel Hill
IDCIE Basic Research

OBSESSIVE-COMPULSIVE DISORDER (OCD)

Matthew Hearing, Ph.D.

Marquette University
IDCIE Basic Research

Christoph Kraus, M.D., Ph.D.

Medical University of Vienna, Austria
IDCIE Next-Generation Therapies

Kai Miller, M.D., Ph.D.

Mayo Clinic College of Medicine,
Minnesota
IDCIE Next-Generation Therapies

Allison Waters, Ph.D.

Icahn School of Medicine at Mount Sinai
IDCIE Next-Generation Therapies

Zeynep Yilmaz, Ph.D.

University of North Carolina at Chapel Hill
IDCIE Basic Research

PSYCHOSIS

Benjamin Buck, Ph.D.

University of Washington
IDCIE Diagnostic Tools/Early Intervention

Simon Chamberland, Ph.D.

New York University
IDCIE Next-Generation Therapies
IDCIE New Technologies

Alexis Cullen, Ph.D.

King's College London, UK
IDCIE New Technologies

Sarah DuBrow, Ph.D.

University of Oregon
IDCIE Basic Research

Philipp Homan, M.D., Ph.D.

Feinstein Institute for Medical Research/
Northwell Health
IDCIE Diagnostic Tools/Early Intervention

Lana Kambeitz-Illankovic, Ph.D.

Institut of Psychiatric Phenomics and
Genomics (IPPG), University Hospital,
LMU, Germany
IDCIE Diagnostic Tools/Early Intervention

Pierre Le Merre, Ph.D.

Karolinska Institutet, Sweden
IDCIE Basic Research

Marcos Santoro, Ph.D.

Universidade Federal de Sao Paulo, Brazil
IDCIE Diagnostic Tools/Early Intervention

Karuna Subramaniam, Ph.D.

Gladstone Institutes/University of
California, San Francisco
IDCIE Next-Generation Therapies

Sunny Tang, M.D.

University of Pennsylvania
IDCIE Diagnostic Tools/Early Intervention

Ross Williamson, Ph.D.

University of Pittsburgh
IDCIE Basic Research

Kun Yang, Ph.D.

Johns Hopkins University School of
Medicine
IDCIE Basic Research

Katherine Young, Ph.D.

King's College London, UK
IDCIE Next-Generation Therapies

POST-TRAUMATIC STRESS DISORDER (PTSD)

Mariam Aly, Ph.D.

Columbia University
IDCIE Basic Research

Jennifer Barredo, Ph.D.

Brown University
IDCIE Next-Generation Therapies

Laura DeNardo, Ph.D.

University of California, Los Angeles
IDCIE Basic Research

Yael Deri, Ph.D.

Stony Brook University
IDCIE Basic Research

Gregory Fonzo, Ph.D.

Dell Medical School, University of Texas
at Austin
IDCIE Basic Research

Gabrielle Girardeau, Ph.D.

Sorbonne University, France
IDCIE Basic Research

Matthew Girgneti, Ph.D.

Yale University School of Medicine
IDCIE Basic Research

Ann Hoffman, Ph.D.

University of California, Los Angeles
IDCIE Basic Research

Munir Kutlu, Ph.D.

Vanderbilt University
IDCIE Basic Research

Elizabeth Lucas, Ph.D.

North Carolina State University
IDCIE Basic Research

Angela Mabb, Ph.D.

Georgia State University
IDCIE Basic Research

Jordan McCall, Ph.D.

Washington University
IDCIE Basic Research

Agnes Norbury, Ph.D.

Icahn School of Medicine at Mount Sinai
IDCIE Basic Research

David Root, Ph.D.

University of Colorado, Denver
IDCIE Basic Research

Tomas Ryan, Ph.D.

Trinity College, Dublin, Ireland
IDCIE Basic Research

Lindsay Schwarz, Ph.D.

St. Jude Children's Research Hospital
IDCIE Basic Research

Helen Schwerdt, Ph.D.

Massachusetts Institute of Technology
IDCIE Basic Research

Andrey Shabalina, Ph.D.

University of Utah
IDCIE Basic Research

Benjamin Suarez-Jimenez, Ph.D.
Columbia University/Research Foundation
for Mental Hygiene, Inc./NYSPI
IDCI [Basic Research](#)

Ashwini Tiwari, Ph.D.
McMaster University, Canada
IDCI [Diagnostic Tools/Early Intervention](#)

Jon Willie, M.D., Ph.D.
Emory University/Emory University
Hospital
IDCI [Next-Generation Therapies](#)

SCHIZOPHRENIA

Tim Bigdeli, Ph.D.
State University of New York, Downstate
IDCI [Diagnostic Tools/Early Intervention](#)

Urs Andreas Braun, M.D.
University of Pennsylvania
IDCI [Basic Research](#)

**Catherine Brownstein, Ph.D.,
M.P.H.**
Harvard University/Harvard Medical
School
IDCI [Basic Research](#)

Yao Chen, Ph.D.
Washington University School of Medicine
IDCI [Basic Research](#)

Alexis Cullen, Ph.D.
King's College London, UK
IDCI [New Technologies](#)

Senthilkumar Deivasigamani, Ph.D.
European Molecular Biology Laboratory,
Germany
IDCI [Basic Research](#)

Kristen Delevich, Ph.D.
University of California, Berkeley
IDCI [New Technologies](#)

Antonio Fernandez-Ruiz, Ph.D.
New York University
IDCI [Basic Research](#)

Michael Francis, M.D.
Indiana University School of Medicine
IDCI [Next-Generation Therapies](#)

Matthew Hearing, Ph.D.
Marquette University
IDCI [Basic Research](#)

Philipp Homan, M.D., Ph.D.
Feinstein Institute for Medical Research/
Northwell Health
IDCI [Diagnostic Tools/Early Intervention](#)

James Howard, Ph.D.
Northwestern University
IDCI [Basic Research](#)

Hailiang Huang, Ph.D.
Harvard University / Massachusetts
General Hospital
IDCI [Basic Research](#)

Moshen Jamali, M.D., Ph.D.
Harvard University / Massachusetts
General Hospital
IDCI [Basic Research](#)

Danique Jeurissen, Ph.D.
Columbia University
IDCI [Basic Research](#)

Daniel Joyce, Ph.D.
Stamford University
IDCI [Next-Generation Therapies](#)
IDCI [New Technologies](#)

Annie Kathuria, Ph.D.
Harvard University / Massachusetts
General Hospital
IDCI [Diagnostic Tools/Early Intervention](#)

Madeleine Kyrke-Smith, Ph.D.
University of Utah
IDCI [Basic Research](#)

Johannes Larsch, Ph.D.
Max-Planck Institute of Neurobiology,
Germany
IDCI [Basic Research](#)

Pierre Le Merre, Ph.D.
Karolinska Institutet, Sweden
IDCI [Basic Research](#)

Felix Leroy, Ph.D.
Columbia University
IDCI [Basic Research](#)

Devanand Manoli, M.D., Ph.D.
Gladstone Institutes/University of
California, San Francisco
IDCI [Basic Research](#)

Jacquelyn Meyers, Ph.D.
State University of New York, Downstate
IDCI [Basic Research](#)

Ralda Nehme, Ph.D.
The Broad Institute at MIT and Harvard
University
IDCI [Basic Research](#)

Jason Olivier, Ph.D.
Duke University
IDCI [New Technologies](#)

Thomas Papouin, Ph.D.
Washington University School of Medicine
IDCI [Basic Research](#)

Johannes Passecker, Ph.D.
Columbia University
IDCI [Basic Research](#)

Rui Peixoto, Ph.D.
University of Pittsburgh
IDCI [Basic Research](#)
IDCI [New Technologies](#)

Mu Qiao, Ph.D.
California Institute of Technology
IDCI [Basic Research](#)

Brian Rash, Ph.D.
Yale University
IDCI [Basic Research](#)

Can Ruan, Ph.D.
Capital University of Medical Sciences,
Beijing Anding Hospital, People's Republic
of China
IDCI [Diagnostic Tools/Early Intervention](#)

Andrey Shabalina, Ph.D.
University of Utah
IDCI [Basic Research](#)

Tarjinder Singh, Ph.D.
Harvard University / Massachusetts
General Hospital
IDCI [Basic Research](#)

Steven Sloan, M.D., Ph.D.
Emory University
IDCI [Basic Research](#)

Karuna Subramaniam, Ph.D.
Gladstone Institutes/University of
California, San Francisco
IDCI [Next-Generation Therapies](#)

Jorien Treur, Ph.D.
University of Amsterdam, Netherlands
IDCI [Basic Research](#)

Thomas Vierbuchen, Ph.D.
Memorial Sloan-Kettering Cancer Center
IDCI [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 Shabalín, Ph.D.

University of Utah

 **Basic Research**

Sandeep Singh, Ph.D.

Virginia Commonwealth University

 **Basic Research**

BIOLOGY OF THE BRAIN (THESE PROJECTS FOCUS ON HOW THE BRAIN WORKS.)

Chandramouli Chandrasekaran, Ph.D.

(Decision-Making)

Boston University

 **Basic Research**

 **New Technologies**

Gilad Evrony, M.D., Ph.D.

(Cellular Development)

New York University School of Medicine

 **New Technologies**

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 (THESE PROJECTS PERTAIN BROADLY TO ALL DISORDERS.)

John Naslund, Ph.D.

(Population Screening)

Harvard Medical School

 **Diagnostic Tools/Early Intervention**

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**

Scientific Council Dinner Presenting the Klerman & Freedman Awards

July 26, 2019, New York, NY

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.



From L to R: Dr. Nolan Williams, Dr. Erin Calipari, Dr. Dorothy Schafer, and Dr. Herbert Pardes



Dr. Eric Kandel



STRIVING TOWARD CURES THROUGH RESEARCH

Scientist Spotlight with: **Anna Victoria Molofsky, M.D., Ph.D.**

2019 BBRF Freedman Prize for Exceptional Basic Research
2016 BBRF Young Investigator

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.”

Scientist Spotlight with: Nolan R. Williams, M.D.

2019 BBRF Klerman Prize for Exceptional Clinical Research
2018 & 2016 BBRF Young Investigator

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.

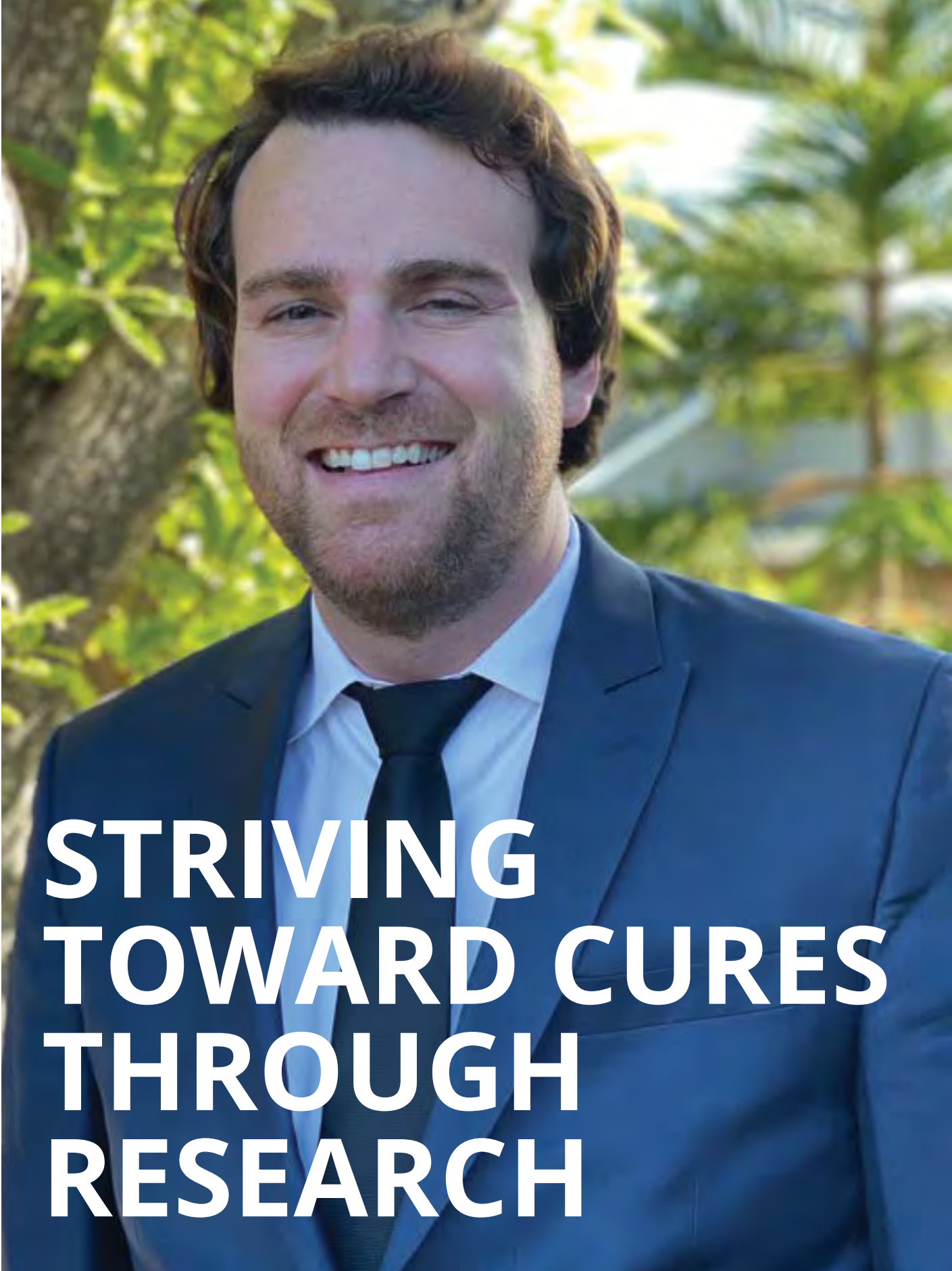
"I am grateful to be mentored by several members of the Scientific Council including Mark George, Alan Schatzberg, and Rob Malenka. I very much hope to continue to help in the development of new therapies for treatment-resistant patients in the coming years."

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.



International Mental Health Research Symposium

November 1, 2019

Kaufman Music Center, New York, NY

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



L to R: 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

Thank you to our Sponsors:



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.



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.

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.

Breaking the Silence About Mental Illness Luncheon

May 1, 2019, New York, NY

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 Elliott 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.



FRONT ROW L-R: Carol Atkinson, Lillian Clagett, Dr. Jeffrey Borenstein, Tipper Gore, Dr. Herbert Pardes, Lilian Sicular.
MIDDLE ROW L-R: Beth Elliott, Sheila Scharfman, Carole Mallement, Ellen Levine.
BACK ROW L-R: Rob Elliott, Patricia Specter, Barbara Toll, Judy Daniels, Nancy Gabel, Michaela Keohane, Dr. Nancy Wexler.

Photo by Chad David Kraus Photography.

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.

“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

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.

January 8, 2019

Brain Plasticity: The Effects of Antidepressants on Major Depression
J. John Mann, M.D.

May 14, 2019

Crossing the Goal Line; Bringing Ketamine Treatments to the Clinic
Gerard Sanacora, M.D., Ph.D.

September 10, 2019

Choline: A New Prenatal Supplement to Improve a Child’s Mental Health
M. Camille Hoffman, M.D., MSc

February 12, 2019

Early Detection and Prevention of Psychotic Disorders: Ready for “Prime Time”?
Jeffrey A. Lieberman, M.D.

June 11, 2019

The Search for Novel Treatment Targets for Obsessive Compulsive Disorder
Susanne E. Ahmari, M.D., Ph.D.

October 15, 2019

Deep Brain Stimulation for Treatment-Resistant Depression: A Progress Report
Helen S. Mayberg, M.D.

March 12, 2019

The Biology of Addiction
Eric J. Nestler, M.D., Ph.D.

July 9, 2019

Searching for Biomarkers of Stress-Related Mental Illness & Suicidality
Lynnette A. Averill, Ph.D.

November 12, 2019

Integrating Virtual Reality into Psychotherapy for Anxious Youth
Michelle Pelcovitz, Ph.D.

April 9, 2019

Circadian Rhythms & Bipolar Disorder
Colleen Ann McClung, Ph.D.

August 13, 2019

Combining TMS with Psychotherapy for Treating Depression & OCD
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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.

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“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.”

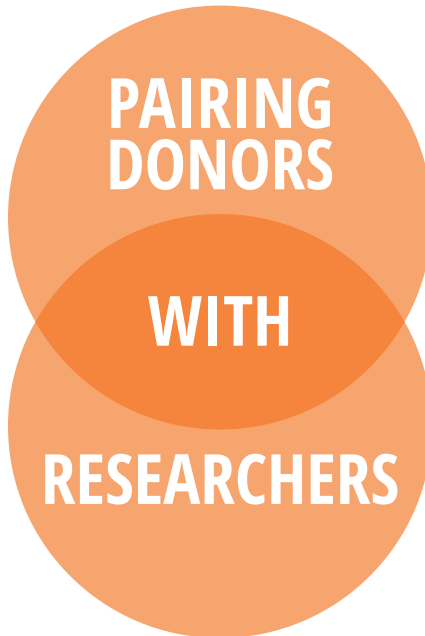
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The **Research Partners Program** enables donors to choose among the best and brightest scientists and the most promising, cutting-edge proposals in mental illness research.

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.

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"My brother first exhibited symptoms of schizophrenia in 1960 at age 17. When we were able to support psychiatric research as a family, we found the Brain & Behavior Research Foundation. I became a Research Partner because the satisfaction of enabling a Young Investigator's work to unlock the pathways to understanding the sources of psychiatric illness is incredibly satisfying. Now I support three Young Investigators each year. My brother knew that whatever science discovered, it would be too late for him, but he wanted to know that others could avoid the illness that had ruined his life. I donate to honor his wish."

—Barbara Toll, Board Member & Research Partner

To learn more, please contact us at 646-681-4889
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With the support of family, friends and your community, you can make a difference in the fight against mental illness and the stigma it bears. The Brain & Behavior Research Foundation relies on the generosity of our donors to help fund leading brain and behavior research. You fuel the hope and promise of future discoveries that will improve the lives of those living with a mental illness. 100% of all donor contributions for research are invested in research grants. When you hold a fundraiser, you play a key role in helping us fund improved treatments, cures, and methods of prevention for our loved ones.

“Every event brings us that much closer to a day free of mental illness. Thank you for partnering with BBRF.”

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Hali Armour
Dr. Bradley M. Arsznov
Ryan Arthur
Elizabeth Artola
Jameson Ashley
Margi Ashton
Carol A. Atkinson
Sabrina Avenoir
Caitlin Ayers
Nick Ayres
Richard Ayres and family
Yasmine N. Azmi
Shelley Babicka
Travis Baker
Rashmi Bakhtiani
Janki Balar
Cheryl Baldino
Missy Baldwin
Monica Bamba
Piyali Banerjee
Doug Bankert
Jessica Bannister
Esther A. Barahona
Don Barbadora, Sr.
Sarah Barber
Andrew Barker
Kyle and Lauren Barnes
Kiera Barnes-Quinn
Richard A. Baron II
Rebecca Bartlett's family
Anthony Basile
Susan K. Bass
Lawrence Bauer
Adrienne Baumrind
Sawyer Bay
John C. Bayat
Fiona Bean
Neal Beatus
Stacy Beebe
Krista Beeman
Natalia Bell
Tina Bell
Benjy and Zach's 2019 Teachers at
Dhahan Elementary and Middle Schools
Carol Benkeser
Jessica Bennett
Anne Bergen
Alexander Berger
Ellen Bernstein

Ben Berria
Helen Berridge
Kathryn Bertin
Cameron Bertron
Peter Best
Eliza Beth
Sadie Beth
Andrew J. Bevacqua
Anne Marie Biancalana
Powers Bilodeau
Ian Binger
John J. Birkenhieser
Jenny Black-Wilson
Jourdan Blackwell
Don Blaesser's daughter
Sonny Blake
Connor Blalock
Rebeckah Blanchard
Nick Blaufox
Pierre Blier, M.D., Ph.D.
Bob Bloom
Howard Blumenfeld
Jan Boardman
Josh Bogle
Nick Bonfatti
Chanandler Bong
Anthony Bonnet
Bailey Bontrager
Jeffrey Borenstein, M.D.
Michael J. Bovi
Mr. and Mrs. Andrew Bowie
Alexandra Bowling
Mark Boyer
Alondo Boykin
Mike Boyle
Eleanor Boyle-Chlan, Ph.D.
Cheri Bradley-Greer
Graham Branton
Donna Brayton
Nicholas Breitborde, Ph.D.
Cayden Brennan
William F. Brenner
Meliza Briseno
David Brooke
Alison Brooks
Duncan Leaf and Ariel Brown
Chris and Desiree Brown
Dawn Brown
John R. Brown
Margaret F. Brown's mother
Rebecca Brudner
Joanne Bruno
Tammy B'Sa
Drake Buccellato
Michael Buckosh
Madie Buiano

Honor Tributes (continued)

Joyce Burland
Christine Burrows
Katrina Bushkul
Stephen Bussdieker
Valeri Bustamante
Marian Bustos-Pelayo
Maaria Buynak
Don Bynon
C.W.
Sam Cadieux
Anna A. Campbell
Daniel Campbell
Ian Campbell
Ashley Canastra
Chris G. Cantelmo
Hana Cantral
Erin Cao
Janelle Cappetta
Captain
Cat Carbonell
Carl and Deb's Wedding
Carl's Mom and all the families who
suffer because of mental illness
Lena Carlson
Richard Carlson
Piper Carscadden
Angela Carver
Emily Celestine
Chaim, Ellie and Ari
Megan Chandler
Claire Chaney
Michael Chaplin
Curtis and Aubrie Chapman
Jill M. Chapman
Emma Charen
Brad Charles
Lesley Chen
Maina Chen
Sho Tin Chen
Benjamin T. Cheney
Stuart Cherney
Cheryl and Patrick
Brie Childress
Laura Maloy Chinofsky
Chris Chipman
Sue Choi's friend
Lauren Chong
Brianna Christine
Theodore Chu
Adrienne Cizik
Natalie Cizik
Torii Clark
Mikey Clavenna
Ted Clayton

Luigi and Suraya Clemente's wedding
guests
Nick Cler
Chris Coates
David C. Cobb
Jazz Cobian
Emil F. Coccaro, M.D.
Diana Cody
Karen L. Cohen
Brooks Cole
Leah-Beth Colee
Thomas B. Coles, M.D.
Thomas B. Coles II
Thomas B. Coles III
Theo Collins
Valerie Collins
Dr. John Collister
Israel Colon, Jr.
Columbia
Confucius Confusing
Natalie Constable
Micheal C. Cook
Kylie Cooney
Andrea Cooper
Paul W. Corliss
Heather Cortes
Joshua Cortez
Thomas S. Cosentino
Tracie Costa
Colin J. Crawford
Morri Creech
Kelsey Marie Crookshanks
Johanna Cummings
Andrew Curley
Bridget Curran and Craig Hull
Samantha Curran
Merry Curran Gregg Art
Courtney Ann Curry
Allen Curtis
William R. Curtis
Rena Da Grava
Jeev Dalawari
Dr. Dalwadi's 10 year-old son
Dana's 50th Birthday
Judy Daniels
Monica Dantori-Dominguez
Carole C. Daugherty
Yvette David
Lydia Davis
Theresa Davis
William Davis
Barbara Davison's friends and family
Michael Day
Michele Dear
Jeff DeBono
Dylan DeBord
Josh Decker

Anna DeFusco
Dana DellaMonica
Gianna DeMedio
David Demutis
Daryl B. Denning
Coleman A. Dennis
Medha S. Deo
David Deputy
Amit Desai
Sharon Deutschendorf
Mitchell Diamond
Ryan Dickey
Madison Diebler
James M. Diggins
Melissa Dirk-Loyd
The DisDad Typo Challenge
Matt Ditmars
Hannah Dodson
Reed Donat
Melissa Dondalski
Michela D'Onofrio
Chris Dosmann
William Dotts
Brenna Dougherty
Mason Doughtie
Bobby Dowling
Christina Du Mont
Jerry Dufault
Jimmy Dunph
Lauren R. Duran
Samantha Durepo
Sam Durepos
Whitney Stewart and Shubir Dutt
Kelly Dwight-Hodo
Joseph Dwyer
Meghan Dwyer
Hayden J. Dyc
Judaeya Dyer
William G. Eckert
Julia Eddy
Anna Edgar
Martha Edmisten
James Egan
Dyllan Egilson
Hayley Elaine
Hannah Eldred
Kristina Elisa
Katie Elizabeth
Beth M. Elliott
Calvin Ellis
Justin Ellis
Tom Ellis
Veronica Ellison
Shelley Elvington
Emily
Jesse Engelhardt
William F. England

Honor Tributes (continued)

Idan Englander
Jonathan Epstein
Jonathan Epstein
Jeffrey D. Erb
Jack Erickson and family at Christmas
Lori Esham-Vogel
Lindsay Evans-Plocek
Lise Ewald
Jan A. Fawcett, M.D.
Esther Fein
Evan Feldman
Ryan Feldman
Miranda Feliciano
Andrew Feng
Amy Fenno
Deborah J. Ferguson
Tony Ferguson
Nikki Ferlazzo
Patricia C. Fernandez
Janice Ferri
Cynthia Ferrio
Kevin Fiduccia
Howard Fields
Brooke Finley
Sgt. Thomas D. Finn
Deborah Fiorella
Logan Fiorella
Nick Fiorella
Joseph Fiorito
Andrew Fischer
Haley Fite
Courtney Fitzgerald
Kim Fitzgerald
Charles Fletcher-Lovett
Laura Flook
Scissors Flook
Danielle Flores
Kendra Flores
Melissa Flowers-Shaddix
Monique Force
Shaina Forte
Casey Foster
Luisa Francoeur
Jackie Frankovich
Ruth Frazier-Lehmann
Julie Freidus
Dana French
Becky Frey
Derek Frey
Mark Frisone
Madison Fry
Lisa Fryst
Clare Fuller
Philip Funderburk
John G.

Karen Gacicia
Brett Gallagher
Kathy Gallagher
Michelle Gamboa
Lajpat Gandhi
Jamie Gangi-Schmitt
Colton R. Gardner
Robert S. Gardner, Jr.
Audrey Garrett
Brooke Gaslow
Ray Gasser
Theodore M. Gault
Kacie Gavin
Peter Gerbeth
Cynthia Germanotta
Seriah Getty
Kimberly Gilbert
Terry Gilland
Amanda Gilliam-Valentic
Kyle Glockens
Klaudia Głogowska
Go4Graham Foundation
Jennifer Godfrey
Naomi Goldblum's nephew
Darlene Golden
Suzanne and John Golden
Jill Goldin
Amanda Golding
Kelsey Gordon
Lucille Gordon
Lalleh Gordy
Kyra Goslin
George and Ellen Gould
Molly Gould
Olivia Gould
Stephanie Grace
Charissa Grado
Hannah Graham
Cathy M. Grant
Jazmyne Greene
Elyse Greger
Kyle Griffin
Patricia G. Griffin
Cynthia Griffith-Zimmerman
Victoria Griswold
Jason Grooms
Christie Grover
Erik Grubbs
Ava Grudich
Laura Gum
Ozge Gunduz Cinar
Marian Gushurst
Tracy Guth-Spangler
Gerardo Gutierrez
Janet Guzman
Danny Guzzi
Julie Haak

Emily Haataja-McAllister
Amanda Hager
Aram Hagopian and Linda Dube
Enrique Hailes
Shea Lee Hale
Kent J. Hall
Nicholas Hall
Joanna "Joey" and Stuart Halloway
Matt Hamilton
Bridget Hammond
Beth Handler
Beth Handler's daughter
Brittany Haneberg-Worsham
Lindsay Hanks
Etienne Hansen
Ali Hardaway
Helene Harper and Mike Tinka
Austin Harris
Bree Harrison
John Kennedy Harrison II
Shion Harrison
Susan Harrison
Samantha Harris-Thomas
Keith Harshey
Debi Hart
Kelli M. Havens
Brad Hawes
Jessica Hawtree
Molly Hazel
Scott Head and Judy Gregory
Kelly Heitz
Cynthia Helfrich
Staff at Help in the Home
Madison Henderson
Michelle Henderson
Charles Hendrix
David Henrich
Christian Herrera
Richard Herrera
Ashlee Hickman
Lindsay Hicks
Natasha Hill
Kathy Hilton
Mary Hippchen
Anita Hiser
Alex Hislop
Caitlyn Hodges
Jake Hoffman
Jenny Hoffman
Raymond Hoffman
Molly Hogwood-Magner
Constance Hohenadel
Carrie Holbert
Alicia Holena
Kevin Holleran
Jamie Holman-McLain
Alexandra Holterman

Honor Tributes (continued)

Cindy Honselaar
Denise Hooker-White
Keith Hopkinson
Jena Horn
Alan J. Horowitz
Lindsay A. House
Lara Houseworth
Hannah Howard
Michelle L. Howard
Zachary Hrenko
Christian Hresko
Aaron Hubbard
Shaw Hubbard
Eva Hudak
Rachel Hurt
Angela Hurtado
Kenneth Hyacinthe
Josh Hyman
IAMDOUGLAS, it's Team and Fans
Brittany Ilang-Ilang
Impact Team, University of Iowa
Louis Innamorato, CPA
Thomas and Deborah Insel
Dana and Joel Ishbia's 50th Birthday
Diane Iulucci
Zinovy Izgur
Damian Jackson
Debbie Jacobs
Lea E. Jacobs
Chris Jacobsen
Linda K. Jaekel
D.J. Jaffe
Monika Jakučionytė
Julianna Jandreau
Beverly Janes
Jamie Jarett
Ling Jasmine
Jenna, Sandy and Chris
Melissa Jensen-Morgan
Judith Jimenez
Jem Jochems
Leslie Johns
Stephen M. Johns
Kyle Johnson
Nina M. Johnson
Todd Johnson
Adam Johnston
Caroline Johnston
LeeAnn Johnston
Bill Jones
Dana Jones
Edward P. Jones
Jillian Jones
Leanna Jones
Mary Ellen Jones

Savanna Jones
Stephen S. Jones
John Joseph
Dan Junntonen
Garrett Justice
Dahlia B. Kadri
Douglas Kahn
Michael Kahn
Sahaj Kamdar
Chayanee Kangwanprasert
Genevieve Kara
Henry L. Karpf
Katrina and Jake
Amy Katz
Helga and Arthur Kawesch
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 Klauke
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
Bryant 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 Liifv
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
Kaelyb 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 Wagner
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 Mattherson
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
Rubye E. Noble-Evans' brother
Ariel Noel-Driver
Nolaespoir
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. Odorizio
Kenneth Ogren
Se-Hun Oh
Joshua D. Okun
Laura Olander
Ryan Olejar
Jennifer Olivares
Bita Olyaei
Kitt O'Malley
Vinna Ong
ONU Mens Soccer Team
Oliver Oppenheim
The Ornamental Hermit
Nieves A. Ortiz
Our Veterans
Tara Overzat
Jacob Oveson

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 Pollett
Catherine Polovchak
Berliz 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
Renee Quast
Chelsey 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
Thandekile-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
Chelsey 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 Schroepel
Alli Schudalla
Andrew Schwartz
Anthony Sciaratta
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
Lindsay Sexton
Saba Shabdiz
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
Nano 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 Spiridigliozzi 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 Tisler 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
Lindia Tjuatja
Kristin Tocci
Bosworth M. Todd, Jr.
Emerson Tom
Alexandra Tomko
Kathe Tomlinson
Nikoleta Tomova
Tom's Birthday
Allyson Tomsy
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
Jen Ward
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 Widrew
Liesl A. Wiederkehr
Erica S. Willams-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 "Splintr Tillio" Wright
Linda Wyckoff
Mike Yamanaka
Gregory Yannett
Jordan Yates
Lakshimi N. Yatham
John Yen
The Yenchik Family
Andria Yiasmin von Karr
P. Yogananda
Coleman Young
Yuri
Zachary Zafran
Julie Zaiontz
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

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

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. Amoroso, 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 (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. Bisschopp
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 Buonconti
Mary Ann Burfeind
Colleen M. Burke
Evan Busbey
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 Conneeley
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 Copen
Wilson Cory
Bradley T. Couch
Robert A. Coursen
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. Dourlain

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.
Trocar Flook
Pat Flowers
Helen T. Foley
James E. Foley
John P. Foley
Jessica A. Forbes
Charlton B. Forgotston

John Fox
Nettie Fox
Lacey Fox-Dickson
Gail W. French
Harvey Friedenber
Alan Friedman
Jason C. Frisco
Larry A. Fuller
Christopher Furay
George Gaiennie 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 Gnuechtel
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. Guinness
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 Herson
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
Dorathy 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
Mischelle 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
Bern
ard 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 Krafzur
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 La Blanc
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
Erin 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 McGlenn
Myra J. McGoldrick
Ann McGrory
Marjorie A. McHarg
Shea McKenna
Olga C. McKew
John R. McLain, 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. Miehlich
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 "Joji" Maniquis 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-Pace'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" Kajsa Marie Nicholas
Carol R. Nielsen
UC Davis Student: Noah
Amanda D. Nolan
Dennis H. Nolan, Sr.
Ann Norris
Reg Norris
Robin Nuse
Michael A. Odoriso'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. Paozella
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 Pepper
Samantha "Sam" Saint Aubyn
Peluso-Swartzlander
Susan Pence-Beaudry
Kathryn M. Pendleton
James Peralta
Sylvia Peregman
David J. Persik
Gregory S. Persik
George H. Peters
Brian Philipps
Lynn Phillips
Parker E. Philips II
Laris Pickett
Reed Pickus
Sybil Pierce
Arthur L. Podolsky
Robert M. Pollack
Lori Beth Pompan
Pat Powell
John Prentiss
Greg Price
Joel Prickett
Justin Provencher
Leighanne Pryer- Reynolds' son
Suzanne Pullman
Bridget 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 Rorick
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
Roddric 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 Sevcik'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

Richard Trommer
 Philip R. Trosko
 Donald Trybula
 Alexandros Tsaoussis-Maddock
 Amanda Tucci
 Kate Tucker
 Vernon W. Tuller
 Colette Turk-Elliott
 Craig Turner
 Kimberly Turner-Wilhelm
 Christian M. Unger
 Kim Valdivia
 Justin Vallejo
 Glenn Van Coevering
 Charles Varkoly
 Varun
 Police Sgt. Alexander Vazquez
 Allen E. Vincent
 Keith A. Vinskofski
 Dr. Dale Vitale
 Annmarie Viviani
 Gregory Von Burg
 Paul Von Burg
 Ken Vorisek
 Chad Wadum
 William F. Wagner, Jr.
 Boyd E. Walker
 Ryan Walker
 Ian Walker Kamp's brother
 Marjorie "Susan / Sue" S. Wallace-Darnell
 Dr. William Wanago
 Eric R. Ward
 Martha J. Warehime
 Joshua Warnick
 Clarence Waskey, Jr.
 Spencer Watson
 Leonard Watts
 John Ways
 Amy L. Weakley
 Jody Weaver
 James M. Weber
 Susan Weems
 Susan Weinberg
 Thomas M. Weintz
 Adam Weisman
 Jenna T. Welch
 Donna L. Welty
 Thomas J. Wendt
 Heidi A. Westhoven
 Scott Weston
 Robert Wetzel
 Randy White
 Katherine White-Radler
 John A. Wiederkehr II
 Michael G. Wieman
 Ronna D. Wilbert
 Henry M. Wile
 John R. Wilkinson
 Justin Wilkinson
 Dorothy Williams
 Robin Williams
 Shawn B. Williams
 Andrea Williams-Barnes
 Katelyn A. Willmonton
 Margaret Wills
 Edwin "Eddie" L. Wilson III
 Kimberly A. Wilson
 Matthew I. Wilson
 Peter B. Wilson
 Richard K. Wilson
 Stephen J. Wilson
 Timothy "Timo" Wilson
 Betty J. Winberg
 Mischa R. Wines
 Stuart J. Winston
 Renee L. Wirostek
 Donna M. Wise-Brownell
 Douglas Wistner
 Clare E. Wojtusik
 Cheryl E. Wolfe
 June Wolfe
 Farrell J. Wolfson
 Jonathan Wolman
 Pond Wongkom
 Bernard Wortman, Ph.D.
 Laura Wren-Polansky
 Susan M. Zach
 Neal Zafran
 Cynthia Zajaczkowski
 Anna Zarski
 Peter W. Zartman
 Andrew W. Zeh
 Maria Zeier
 Heather Zettlemyer
 Edward N. Ziegler
 Gladys P. Ziegler
 Barry L. Zimmerman
 Chris Zimmermann
 Justin Zirbes

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.



360K Followers
363K Likes
8,300 People engaged with BBRF content per month



7,983 Followers



2,647 Followers
(created Instagram Account October 2017)



5,947 Subscribers
595K Views
20K Hours watched in 2019



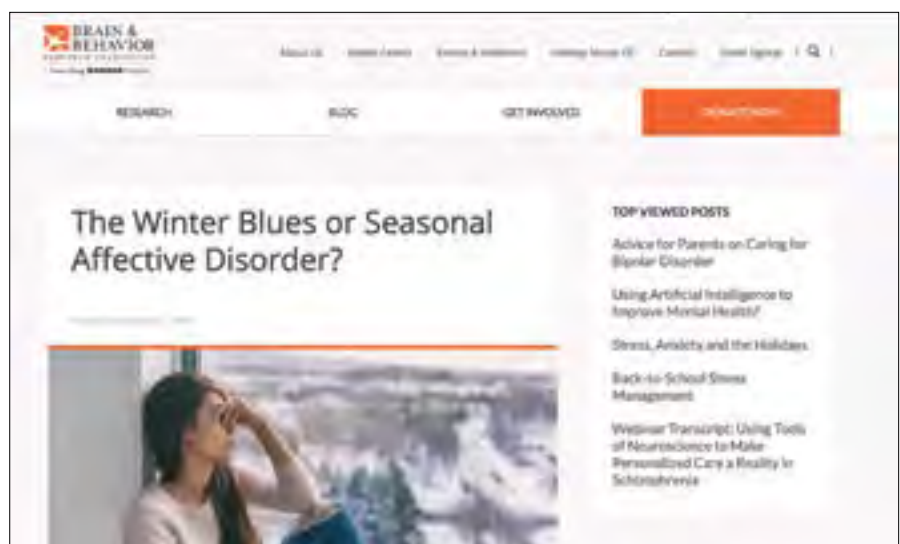
3,542 Company Page Followers
270 Average Company Page Monthly Visits
2,711 Group Members

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:



BY THE NUMBERS SINCE 1987

AWARDED TO SCIENTISTS



\$408+ MILLION

GRANTS

5,900+

The breakdown of our grants since 1987

4,682	Young Investigators
828	Independent Investigators
426	Distinguished Investigators



UNIVERSITIES & MEDICAL CENTERS

563

COUNTRIES, INCLUDING THE U.S.

35

181 ACTIVE SCIENTIFIC COUNCIL MEMBERS (AND 12 EMERITUS MEMBERS)

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.

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 Prize Winner

Financial Summary*

Consolidated Statement of Financial Position

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

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

Consolidated Statement of Activities

	YEAR ENDED DECEMBER 31, 2019	YEAR ENDED DECEMBER 31, 2018
SUPPORT AND REVENUE		
Contributions	\$16,069,353	\$15,556,817
Special events, net	345,041	381,244
Contribution of services	1,977,786	1,908,417
Bequests	9,206,115	2,330,941
Net realized and unrealized gains (losses) on investments	3,734,593	(450,793)
Net appreciation (depreciation) of assets held in charitable remainder trusts	212,598	(178,707)
Dividend and interest income	239,655	280,034
Total Support and Revenue	31,785,141	19,827,953
EXPENSES		
Program Services		
Research grants and awards	14,797,331	14,052,583
Scientific advancement	2,268,335	1,986,729
Program support	2,487,570	2,530,355
Total Program Services	19,553,236	18,569,667
Supporting Services		
Fundraising**	889,015	908,528
Administration**	1,743,314	1,758,414
Total Supporting Services	2,632,329	2,666,942
Total Expenses	22,185,565	21,236,609
Change in Net Assets	9,599,576	(1,408,656)
Net Assets, beginning of year	7,870,895	9,279,551
Net Assets, end of year	\$17,470,471	\$7,870,895

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



Awarding **NARSAD** Grants

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