

BRAIN & BEHAVIOR RESEARCH FOUNDATION

2018 Annual Report

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



Awarding **NARSAD** Grants

More than 30 Years of Research for Recovery

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.

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.

VISION

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

100% of all donor contributions for research are invested in BBRF grants that lead to discoveries in understanding the causes and improving treatments for brain and behavior disorders in children and adults including addiction, ADHD, anxiety, autism, bipolar disorder, borderline personality disorder, depression, eating disorders, OCD, PTSD, schizophrenia and suicide prevention.

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Our Global Footprint

100% of every dollar donated for research is invested in our research grants. Our operating expenses are covered by separate foundation grants.

TOTAL AMOUNT AWARDED SINCE 1987



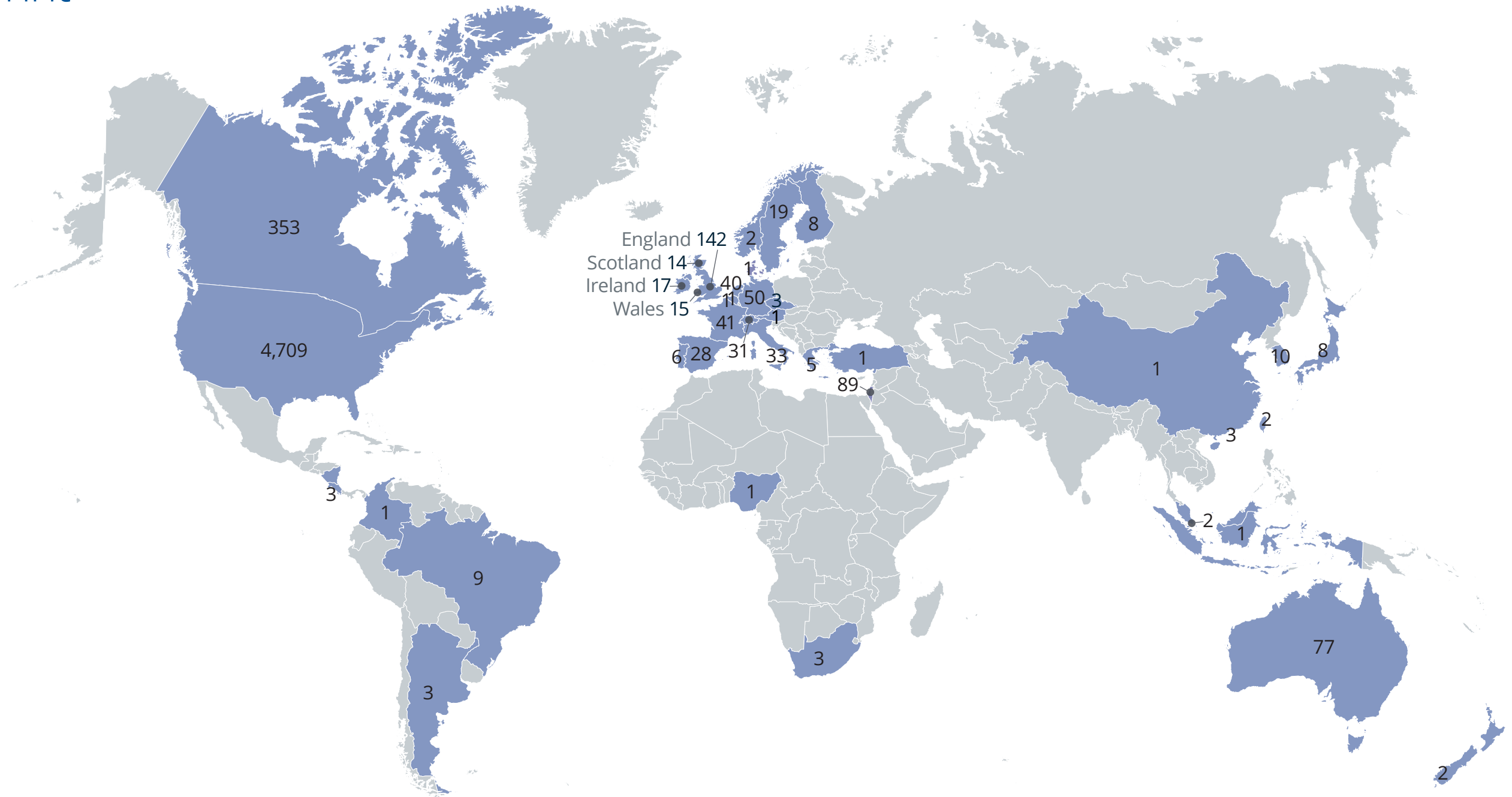
TOTAL NUMBER OF COUNTRIES

35

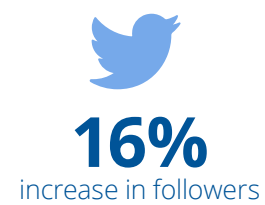
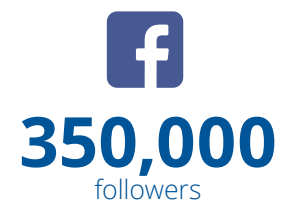
TOTAL GRANTS AWARDED

- 5,700+** In total
- 4,700+** In the U.S.
- 1,000+** Outside the U.S.

- 4,482** Young Investigator Grants
- 828** Independent Investigator Grants
- 426** Distinguished Investigator Grants



2018 BBRF HIGHLIGHTS



Message from the President & CEO



Jeffrey Borenstein, M.D.
President & CEO

The year 2018 was one of great advances in the field of brain and behavior research thanks to you, and the many others who generously support the Brain & Behavior Research Foundation.

This annual report highlights the remarkable research that has taken place because of BBRF grants in 2018. This past year, BBRF grantees have generated advances that are enabling more and more people to live full, happy, and productive lives.

Since 1987, BBRF has awarded more than \$394 million to more than 4,700 researchers around the world who are working hard to alleviate the suffering caused by mental illness.

As the world's leading private funder of mental health research grants, BBRF provides initial funding for high-risk, high-reward ideas that major research funders, including the NIMH, would not yet support. Our seed money allows a scientist to conduct innovative research which leads to a multiplier effect resulting in additional funding from other sources to continue their work.

I am proud to report that in 2018 alone, BBRF has funded more than \$17 million in research grants looking at addiction, ADHD, anxiety, autism, bipolar disorder, borderline personality disorder, depression, eating disorders, OCD, PTSD, and schizophrenia.

Funding the most promising and cutting-edge research is at the core of our mission. Supporting young scientists' careers and keeping them in the field of neuroscience is vital to finding cures for mental illness. In fact, our support for young scientists launches careers in brain science.

The path to the future of scientific research and discovery is a challenging and lengthy process, and BBRF remains committed to funding "innovative and out of the box" ideas because it is this cutting-edge research that will eventually result in new treatments and cures for brain and behavior disorders.

Many new discoveries in brain science would not, and could not, have occurred without early support from a BBRF grant.

Recently, the U.S. Food and Drug Administration approved two drugs that rapidly relieve the symptoms of severe depression. These are the first antidepressant medicines with novel mechanisms of action that have been approved in decades. BBRF grantees were among the pioneering researchers who laid the scientific foundations for both of these medications as well as the clinical trials that demonstrated their effectiveness. Esketamine, delivered via a nasal spray, is targeted for patients who have not been helped by two or more conventional antidepressant treatments. Brexanolone is the first medication specifically approved for postpartum depression.

Advances and discoveries that BBRF grantees, prizewinners, and Scientific Council members are actively researching and which we will likely hear a lot more about in the next 5–10 years include:

- Fast-acting antidepressants
- Cognitive remediation
- Stem cell technologies
- Diagnostic biomarkers/computer-guided diagnosis of mental illness
- Personalized treatments for brain and behavior disorders
- Very large samples to reveal undetected genetic factors
- Improved TMS and other non-invasive brain stimulation treatments
- Establishing the role of inflammation in mental illness
- Dietary supplements for prevention of mental illness
- Actionable information about how genes and environment interact

This research, as well as other scientific discoveries, will change how we help people who live with mental illness. Our model encourages new and innovative research from the bottom up, generated by scientists.

Examples include early support for optogenetics, deep brain stimulation for treatment-resistant depression, transcranial magnetic stimulation, and rapid-acting antidepressants. Each of these important breakthroughs received initial key support from grants provided by the BBRF.

The past, present, and future accomplishments of BBRF are inextricably bound with the passionate commitment and intense effort of our Scientific Council. Scientists on the BBRF Scientific Council offer their time, judgement and the wisdom of their experience in evaluating the research goals of the more than 800 scientists who submitted grant applications in 2018. A survey of our Scientific Council members revealed that approximately one-third of them received their initial early research support from BBRF as Young Investigators.

The vision of our 180-member Scientific Council could not be fulfilled without its leader, Dr. Herbert Pardes; the guidance of our Board of Directors, led by our Chairman, Steve Lieber; and funding from you, our donors. With momentum building in the field for new and exciting brain and behavior advancements, your support is even more urgent — and will be impactful today and in the future by helping to accelerate research and bring recovery for more people. **100% of your contribution for research directly supports research as our operating expenses are covered by separate foundation grants.**

Our work is far from done, but looking back on last year, we did indeed move the needle forward on our path to research for recovery. I thank you for your contributions to the BBRF and welcome those of you who will join us on the dynamic path to the future.

Sincerely,



Jeffrey Borenstein, M.D.

Message from the President of the Scientific Council



Herbert Pardes, M.D.
President, BBRF Scientific Council

According to the World Health Organization, four of the 10 most disabling diseases of societies worldwide are psychiatric.

“By 2020, the most significant illness in the world will be mental illness. The clues are all there, but they haven’t been pulled together adequately.”
—Stephen Lieber, Chairman of the BBRF Board

I couldn’t agree more with Steve Lieber. BBRF’s record of more than 30 years of support for psychiatric research is remarkable, and we are working hard to use the clues to solve the most intricate and complicated of illnesses — mental illness.

This at its very core is what BBRF strives to do — find the dynamic path forward.

BBRF continues its legacy of extremely productive grant-making that is changing brain research and psychiatry. Scientists who have received a BBRF grant have generated seminal ideas, launched discoveries that have changed the direction of research, and helped foster the development and testing of novel therapies offering new and better therapeutic options to patients.

With fiscal constraints making federal funding harder than ever to obtain for scientists — and particularly those early in their career; and with high-risk, early-stage project support having become almost non-existent within the world’s largest pharmaceutical firms, BBRF grants have come to occupy an ever more important niche. Historically, our annual grant-making emphasis has been on identifying the most promising early-career scientists.

Repeatedly giving the rising generation of brain scientists a chance to take risks and demonstrate out-of-the-box ideas, we frequently have had the satisfaction of seeing ideas and projects advance in step-wise fashion, from intriguing concepts to pilot projects to major projects that secure major government funding. Remarkably, BBRF grant recipients have gone on to receive \$3.9 billion in additional research funding in next-stage NIMH and NIH grants. But the multiplier is also qualitative. Many times we have observed work on a concept advance on several fronts and in several distinct phases simultaneously, in the laboratories of researchers who have received BBRF grants in different years.

The net result is that investigations sparked by BBRF grants have substantially changed the way doctors and scientists look at the brain, at the changes in genes and cells that underlie mental illnesses, and in the way they treat those who are afflicted.

BBRF has a winning track record. Examples of it include:

Fast-acting antidepressants

Ketamine, esketamine and other agents with new mechanisms of action are gaining approval. Research by our grantees puts us in view of a new era in depression treatment in which the most severely affected patients will not have to wait months to experience a reduction in symptoms. Severe depression symptoms will be alleviated within hours — a lifesaver for the most seriously ill.

Stem cell technologies

Pioneered by our grantees, and now widely used, stem-cell methods are making it possible to reprogram patients’ skin cells to re-develop as neurons and other brain-cell types. Grown in culture, these cells “wire-up” to become functioning brain organoids, living test-beds that enable researchers to observe how pathologies of specific patients emerge in the developing brain.

Causation of Schizophrenia

A grantee and Scientific Council member has conducted research corroborating his longstanding theory about schizophrenia, connecting causation with pregnancy complications that activate otherwise inactive “risk” genes. This research serves as an example of how environment can directly impact gene expression to cause pathology in mental illness.

The Scientific Council continues to grow, with experts broadening its scientific and clinical breadth. We can proudly say that we have 38 specialists in addiction, 23 specialists in ADHD, 47 specialists in anxiety, 34 specialists in autism, 48 specialists in bipolar disorder, 4 specialists in borderline personality disorder, 68 specialists in depression, 20 specialists in OCD, 23 specialists in PTSD, and 80 specialists in schizophrenia. This strengthens our capacity to review grant applications and identify the most creative proposals, which is essential in this tech-boom era marked by the increasing precision and sophistication of science.

BBRF has long served as a go-to resource for the support of psychiatric research. More than 30 years from its founding, scientists see BBRF, perhaps more than ever, as a dependable and in some cases indispensable source of funding for their work. BBRF and the Scientific Council are dedicated to the continuity that successful research requires. Let me thank all of you in the BBRF family for being so supportive. The continued outlook for discoveries is very encouraging and reflects the broad and remarkable dynamism of brain research.

I have never been more confident in the capabilities of the Scientific Council and our future prospects.

Sincerely,

Herbert Pardes, M.D.
President of the Scientific Council

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President, Scientific Council

Herbert Pardes, M.D.

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2018 Leading Research Achievements by Foundation Grantees

- 1 A Rapid Form of Brain Stimulation for Treatment-Resistant Depression
- 2 Largest-Ever Cortical Imaging Study of OCD Patients Offers Clues to Causes
- 3 Pregnancy Complications Provide Opportunity for Schizophrenia Risk Genes to Harm the Fetus
- 4 A Revealing Genetic Comparison of Schizophrenia and Bipolar Disorder
- 5 Machine-learning Helped Identify Newly Diagnosed Schizophrenia and Predicted Treatment Response
- 6 Interactive Parent-Child Therapy Reduced Depression Symptoms in Very Young Children
- 7 Esketamine Reduced Suicidal Thoughts Within Hours of Treatment
- 8 Adult-Born Neurons Can Protect Against Chronic Stress
- 9 Rapid, Intensive Outpatient Treatment Reduced Vets' PTSD Symptoms Within Weeks
- 10 Researchers Train Computers to Identify a Biological Signature of Bipolar Disorder
- 11 Folic Acid-Fortified Foods During Pregnancy May Lower Child's Psychosis Risk After Birth
- 12 Computer-Delivered Cognitive Training Significantly Helped Schizophrenia Patients in Rehab Setting

Listed in order of publication.

Next-Generation Treatments, New Technologies: Depression

A Rapid Form of Brain Stimulation for Treatment-Resistant Depression

1



Daniel M. Blumberger, M.D.

Centre for Addiction and Mental Health / University of Toronto

2010 BBRF Young Investigator Grant

A new form of transcranial magnetic stimulation, or TMS, has been successfully tested in patients whose depression did not respond to one or more standard treatments. The new TMS technology is called iTBS (intermittent theta burst stimulation). It can safely and painlessly deliver stimulation to brain areas affected by depression in only 3 minutes — delivering benefits to patients that researchers report are just as effective as standard, 37-minute TMS treatments. Like standard TMS, iTBS enabled half of patients to achieve at least a 50 percent reduction in symptoms, and one-third to achieve full remission.

The research team included: **Zafiris Daskalakis, M.D., Ph.D.**, BBRF Scientific Council, 2008 Independent Investigator, 2006 and 2004 Young Investigator; **Peter Giacobbe, B.Sc., M.D.**, 2010 BBRF Young Investigator.

Journal: *The Lancet*, April 28, 2018

Basic Research: Obsessive-Compulsive Disorder

Largest-Ever Cortical Imaging Study of OCD Patients Offers Clues to Causes

2



Odile A. van den Heuvel, M.D., Ph.D.

VU University Medical Center in Amsterdam, Netherlands

2009 BBRF Young Investigator Grant

A study has provided new clues about which parts of the brain are disrupted in people with obsessive-compulsive disorder. By comparing brain scans of 1,905 people with OCD with those of 1,760 unaffected people, researchers noted a thinning in the parietal lobe, a part of the cortex involved in attention, planning, and response inhibition. This might contribute to patients' recurring thoughts and repetitive behaviors. The thinning was noted in both adolescent and adult patients.

The research team included: **Luciano Minuzzi, M.D., Ph.D.**, 2014 BBRF Young Investigator.

Journal: *American Journal of Psychiatry*, May 1, 2018

Basic Research: Schizophrenia, Autism, Childhood Disorders

Pregnancy Complications Provide Opportunity for Schizophrenia Risk Genes to Harm the Fetus

3



Daniel Weinberger, M.D.
Lieber Institute for Brain Development
BBRF Scientific Council Member
2000, 1990 Distinguished Investigator Grant
1993 Lieber Prizewinner for Outstanding Achievement in Schizophrenia Research

Researchers have discovered that some of the most significant gene variants associated with schizophrenia affect pathways sensitive to pre-birth events influencing the response of the placenta to stress. The findings suggest the placenta is the link between schizophrenia risk genes and potentially harmful external stresses, including complications during pregnancy or birth. In an analysis that included nearly 3,000 individuals, including 2,038 with schizophrenia, researchers found that early-life complications amplify a person's inherited risk for schizophrenia more than 10-fold, and tend to affect a male fetus more than a female fetus.

The research team included: **Karen Faith Berman, M.D.**, BBRF Scientific Council, 2014 Distinguished Investigator, 2000 Independent Investigator; **Giuseppe Blasi, M.D.**, 2007 BBRF Young Investigator; **Dan Rujescu, M.D., Ph.D.**, 2006 BBRF Independent Investigator; **Alessandro Bertolino, M.D., Ph.D.**, 2013 BBRF Independent Investigator, 1999 Young Investigator.

Journal: *Nature Medicine*, May 28, 2018

Basic Research: Schizophrenia, Bipolar Disorder

A Revealing Genetic Comparison of Schizophrenia and Bipolar Disorder

4



Douglas M. Ruderfer, Ph.D.
Vanderbilt University
2015 BBRF Young Investigator Grant

Schizophrenia and bipolar disorder are distinct diagnoses yet they have symptoms that overlap. They also share some of their underlying genetics, and now a study in which over 100,000 genomes were analyzed has enabled scientists to show 114 locations in the genome implicating pathways shared between the two illnesses, and four genome regions that contribute to differences in their biology. One implication of the research is that it may become possible to say, based on an individual's genetic risk score for each illness, whether or not they are likely to have certain symptoms. Another implication is that we may be able to determine the genetic signature not just for risk of an illness, like schizophrenia, "but also for key symptom dimensions like psychosis or mania," which cut across diagnostic boundaries.

The research team included: **Luciano Minuzzi, M.D., Ph.D.**, 2014 BBRF Young Investigator.

Journal: *Cell*, June 14, 2018

Diagnostic Tools/Early Intervention: Schizophrenia, Psychosis

Machine-learning Helped Identify Newly Diagnosed Schizophrenia and Predicted Treatment Response

5



Bo Cao, Ph.D.
University of Alberta, Canada
2016 BBRF Young Investigator Grant

By teaching computers to analyze specific yet very subtle features in brain scans — a method called machine learning — researchers were able to identify schizophrenia in 78 percent of a group of newly diagnosed patients. They could further predict, with 82 percent accuracy, which patients would respond to treatment with the antipsychotic medicine risperidone. It is an important step toward finding reliable biomarkers to assist in diagnosing schizophrenia and even to predict it before symptoms appear.

The research team included: **Xiang Yang Zhang, M.D., Ph.D.**, 2013 BBRF Independent Investigator; **Raymond Y. Cho, M.D., M.Sc.**, 2015 BBRF Independent Investigator, 2005 and 2003 Young Investigator; **Jair Soares, M.D., Ph.D.**, 2002 BBRF Independent Investigator, 1999 and 1997 Young Investigator.

Journal: *Molecular Psychiatry*, June 19, 2018

Next-Generation Treatments: Depression, Childhood Disorders

Interactive Parent-Child Therapy Reduced Depression Symptoms in Very Young Children

6



Joan L. Luby, M.D.
Washington University School of Medicine in St. Louis
BBRF Scientific Council Member
2008, 2004 Independent Investigator Grant
2004 Klerman Prize for Exceptional Clinical Research
1999 Young Investigator Grant

Young children diagnosed with depression can benefit from an interactive form of therapy involving a parent, according to a clinical trial which evaluated the effects on depressed children between the ages of 3 and 7. Those in the treatment group participated in 20 therapy sessions over 18 weeks, in which therapists guided parents to better help their children recognize and regulate their emotions. Children who received the therapy had significantly lower rates of depression and less severe symptoms than those in the group that did not receive the therapy, while their parents also experienced a reduction in their own depression symptoms and in stress. This suggests that earlier identification and intervention offers a key pathway for more effective treatment.

The research team included: **Deanna Barch, Ph.D.**, BBRF Scientific Council, 2013 Distinguished Investigator, 2006 Independent Investigator, 2000 and 1995 Young Investigator

Journal: *American Journal of Psychiatry*, June 20, 2018

Next-Generation Treatments: Suicide, Depression

Esketamine Reduced Suicidal Thoughts Within Hours of Treatment

7



Carla M. Canuso, M.D.
Johnson & Johnson/Janssen R&D
1998 BBRF Young Investigator Grant

The experimental drug esketamine rapidly reduced thoughts of suicide and symptoms of depression in a small clinical trial involving 68 patients. The benefits of esketamine, like the closely related drug ketamine, were greatest within hours of treatment. By the end of the 4-week trial and 8-week follow-up (during which all patients continued taking their prior medications) those who had received a placebo rather than esketamine achieved similar reductions in depression and suicidal thoughts as did the esketamine group. This suggests esketamine could be valuable for managing severe depression and reducing suicide risk until traditional antidepressants can take effect.

The research team included: **Husseini K. Manji, M.D.**, BBRF Scientific Council, 1999 Falcone Prize, 1998 Independent Investigator; **Wayne C. Drevets, M.D.**, BBRF Scientific Council, 2014 Colvin Prize, 1999 Independent Investigator, 1996 Young Investigator; **Gerard Sanacora, M.D., Ph.D.**, BBRF Scientific Council, 2014 Distinguished Investigator, 2007 Independent Investigator, 2001 and 1999 Young Investigator.

Journal: *American Journal of Psychiatry*, July 1, 2018

Next-Generation Therapies: PTSD

Rapid, Intensive Outpatient Treatment Reduced Vets' PTSD Symptoms Within Weeks

9



Alyson Kay Zalta, Ph.D.
University of California, Irvine
2016 BBRF Young Investigator Grant

Three weeks of intensive outpatient treatment significantly reduced the symptoms of post-traumatic stress disorder (PTSD) in veterans. The short course of treatment enabled 91 percent of trial participants to stay with the program to its end, an important factor in its success. Residential treatment programs typically last 6 to 12 weeks, a period that can be disruptive to work and family life. The new 3-week outpatient program involved daily trauma-focused psychotherapy called Cognitive Processing Therapy, and mindfulness-based resiliency training, which teaches patients to focus on the present moment to reduce stress and improve tolerance to trauma-related stimuli. Depression symptoms declined steadily throughout the program, and PTSD symptoms began to decline after the first week, and reduced more quickly as the therapy continued.

The research team included: **Mark H. Pollack, M.D.**, 2003 BBRF Independent Investigator.

Journal: *BMC Psychiatry*, July 27, 2018

Basic Research: Anxiety, Depression

Adult-Born Neurons Can Protect Against Chronic Stress

8



René Hen, Ph.D.
Columbia University
BBRF Scientific Council Member
2009, 2003 Distinguished Investigator Grant
1998 Independent Investigator Grant

The birth of new neurons in the adult brain appears to be important for resilience to chronic stress. The discovery, made in mice, suggests that adult-born cells in the hippocampus — a part of the brain that regulates mood — rein in the activity of stress-responsive cells. This, in turn, reduces stress-induced anxiety. The findings suggest these newly born cells may be important for protecting against prevalent stress-related disorders such as depression and anxiety. They raise the prospect that manipulating neuronal activity in a section of the hippocampus might be a way to protect against stress-related psychiatric disorders.

Journal: *Nature*, July 5, 2018

Diagnostic Tools/Early Intervention: Bipolar Disorder

Researchers Train Computers to Identify a Biological Signature of Bipolar Disorder

10



Tomas Hajek, M.D., Ph.D.
Dalhousie University
2015 BBRF Independent Investigator Grant
2007 Young Investigator Grant

A large international team has used machine-learning methods to identify diagnostic markers of bipolar disorder. After assembling over 3,000 brain scans of bipolar disorder patients and controls from multiple sites, researchers tested whether computers could train themselves to reliably distinguish patients from controls. The encouraging results provide a proof-of-concept for a brain-imaging signature of bipolar disorder to identify the illness in individuals. The team's aim is differential diagnosis — being able to distinguish between different psychiatric disorders with similar manifestations.

The research team included: **Geraldo F. Busatto, M.D., Ph.D.**, 2010 BBRF Independent Investigator; **Dara Cannon, Ph.D.**, BBRF 2006 and 2004 Young Investigator; **Janice Fullerton, Ph.D.**, 2007 BBRF Young Investigator; **David Glahn, Ph.D.**, 2014 BBRF Independent Investigator, 2005 and 2003 Young Investigator; **Roshel Lenroot, M.D.**, 2003 BBRF Young Investigator; **Colm McDonald, Ph.D.**, 2009 BBRF Independent Investigator, 2002 Young Investigator; **Theodore Satterthwaite, M.D.**, 2014 Klerman Prize, 2010 BBRF Young Investigator; **Jair Soares, M.D., Ph.D.**, 1999 and 1997 BBRF Young Investigator; **Eduard Vieta, M.D.**, 2012 Colvin Prize.

Journal: *Molecular Psychiatry*, August 31, 2018

Diagnostic Tools/Early Intervention: Psychosis, Schizophrenia, Autism, Developmental Disorders

Folic Acid-Fortified Foods During Pregnancy May Lower Child's Psychosis Risk After Birth

11



Joshua L. Roffman, M.D., M.M.Sc.

Harvard Medical School /
Massachusetts General Hospital

2014 BBRF Independent Investigator Grant

2007 Young Investigator Grant

Researchers used MRI scans to compare the brains of more than 1,200 children and adolescents born before, at the time of, and following a 1996 government order directing food producers to supplement grain products with folic acid. Deficiencies of this basic nutrient can cause birth defects including neural tube defects. The research showed that children who were not exposed to folic acid during the fetal period displayed earlier cortical thinning, which is associated with higher psychosis risk. Those born after fortification was mandated had the longest delays in thinning and thus the lowest relative risk.

The research team included: **Ezra S. Susser, M.D., Ph.D.**, 2008 BBRF Distinguished Investigator, 1995 Independent Investigator; **Theodore D. Satterthwaite, M.D.**, 2014 Klerman Prize, 2010 BBRF Young Investigator; **Ruben Gur M.D., Ph.D.**, 2007 BBRF Distinguished Investigator.

Journal: *JAMA Psychiatry*, September 1, 2018

Next-Generation Treatments: Schizophrenia

Computer-Delivered Cognitive Training Significantly Helped Schizophrenia Patients in Rehab Setting

12



Gregory A. Light, Ph.D.

University of California, San Diego

2014 Sidney R. Baer, Jr. Prize for
Outstanding Achievement in
Schizophrenia Research (Maltz Prize)

2013 BBRF Independent Investigator Grant

2006, 2003 Young Investigator Grant

Researchers have shown that a form of therapy called targeted cognitive training (TCT) can help individuals with schizophrenia who have suffered from severe symptoms and required stabilization on high medication dosages for many years. Patients received 3–5 hours of TCT training per week, delivered via laptop computers, with tasks focusing on a variety of auditory processes. Deficits in auditory perception and verbal learning have been traced to the brain's auditory processing system. "TCT produced significant improvements in auditory perception and verbal learning," the team reported. Patients also experienced a "significant reduction in auditory hallucinations."

The research team included: **Andrew Bismark, Ph.D.**, 2016 BBRF Young Investigator; **Yash Joshi, M.D., Ph.D.**, 2018 BBRF Young Investigator; **David L. Braff, M.D.**, 2014 Lieber Prize, 2007 BBRF Distinguished Investigator; **Sophia Vinogradov, M.D.**, 2000 BBRF Independent Investigator; **Neal Swerdlow, M.D., Ph.D.**, 2016 BBRF Distinguished Investigator, 1995 Independent Investigator, 1990 Young Investigator.

Journal: *Schizophrenia Research*, December 1, 2018

Our Scientific Council

- 180 Members (10 Emeritus)
- 52 Members of the National Academy of Medicine
- 29 Chairs of Psychiatry & Neuroscience Departments
- 12 Members of the National Academy of Sciences
- 4 Recipients of the National Medal of Science
- 3 Former Directors of the National Institute of Mental Health and the current Director
- 1 Nobel Prize Winner

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Herbert Pardes, M.D.

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- Robert B. Innis, M.D., Ph.D.
- Jonathan A. Javitch, M.D., Ph.D.
- Daniel C. Javitt, M.D., Ph.D.
- Dilip V. Jeste, M.D.
- Ned H. Kalin, M.D.
- Peter W. Kalivas, Ph.D.
- Eric R. Kandell, M.D.
- Richard S.E. Keefe, Ph.D.
- Samuel J. Keith, M.D.
- Martin B. Keller, M.D.
- John R. Kelsoe, M.D.

- Kenneth S. Kendler, M.D.
- James L. Kennedy, M.D.
- Robert M. Kessler, M.D.
- Mary-Claire King, Ph.D.
- Rachel G. Klein, Ph.D.
- John H. Krystal, M.D.
- Amanda J. Law, Ph.D.
- James F. Leckman, M.D., Ph.D.
- Francis S. Lee, M.D., Ph.D.
- Ellen Leibenluft, M.D.
- Robert H. Lenox, M.D.
- Pat R. Levitt, Ph.D.
- David A. Lewis, M.D.
- Jeffrey A. Lieberman, M.D.
- Kelvin Lim, M.D.
- Joan L. Luby, M.D.
- Irwin Lucki, Ph.D.
- Gary Lynch, Ph.D.
- Robert C. Malenka, M.D., Ph.D.
- Anil K. Malhotra, M.D.
- Husseini K. Manji, M.D., F.R.C.P.C.
- J. John Mann, M.D.
- John S. March, M.D., M.P.H.
- Stephen Maren, Ph.D.
- Daniel H. Mathalon, Ph.D., M.D.
- Helen S. Mayberg, M.D.
- Bruce S. McEwen, Ph.D.
- Ronald McKay, Ph.D.
- James H. Meador-Woodruff, M.D.
- Herbert Y. Meltzer, M.D.
- Kathleen R. Merikangas, Ph.D.
- Richard J. Miller, Ph.D.
- Karoly Mirnics, M.D., Ph.D.
- Bitu Moghaddam, Ph.D.
- Charles B. Nemeroff, M.D., Ph.D.
- Eric J. Nestler, M.D., Ph.D.
- Andrew A. Nierenberg, M.D.
- Patricio O'Donnell, M.D., Ph.D.
- Dost Ongur, M.D., Ph.D.
- Maria A. Oquendo, M.D., Ph.D.
- Steven M. Paul, M.D.
- Godfrey D. Pearson, M.D., Ph.D.
- Mary L. Phillips, M.D., M.D. (CANTAB)
- Marina R. Picciotto, Ph.D.
- Daniel S. Pine, M.D.
- Robert M. Post, M.D.
- James B. Potash, M.D., M.P.H.
- Steven G. Potkin, M.D.
- Pasko Rakic, M.D., Ph.D.
- Judith L. Rapoport, M.D.
- Perry F. Renshaw, M.D., Ph.D., M.B.A.
- Kerry J. Ressler, M.D., Ph.D.
- Victoria B. Risbrough, Ph.D.
- Carolyn B. Robinowitz, M.D.
- Bryan L. Roth, M.D., Ph.D.
- Laura M. Rowland, Ph.D.
- John L.R. Rubenstein, M.D., Ph.D.
- Bernardo Sabatini, M.D., Ph.D.
- Gerard Sanacora, M.D., Ph.D.
- Akira Sawa, M.D., Ph.D.
- Alan F. Schatzberg, M.D.
- Nina R. Schooler, Ph.D.
- Robert Schwarcz, Ph.D.
- Yvette I. Sheline, M.D.
- Solomon H. Snyder, M.D., D.Sc., D.Phil. (Hon. Causa)
- Vikaas S. Sohal, M.D., Ph.D.
- Matthew W. State, M.D., Ph.D.
- Murray B. Stein, M.D., M.P.H., F.R.C.F.C.
- Stephen M. Strakowski, M.D.
- John S. Strauss, M.D.
- J. David Sweatt, Ph.D.
- John A. Talbott, M.D.
- Carol A. Tamminga, M.D.
- Laurence H. Tecott, M.D., Ph.D.
- Kay M. Tye, Ph.D.
- Leslie G. Ungerleider, Ph.D.
- Flora M. Vaccarino, M.D.
- Rita J. Valentino, Ph.D.
- Jim van Os, M.D., Ph.D., MRCPsych
- Jeremy M. Veenstra-VanderWeele, M.D.
- Susan M. Voglmaier, M.D., Ph.D.
- Aristotle N. Voineskos, M.D., Ph.D.
- Nora D. Volkow, M.D.
- Karen Dineen Wagner, M.D., Ph.D.
- Daniel R. Weinberger, M.D.
- Myrna M. Weissman, Ph.D.
- Marina E. Wolf, Ph.D.
- Jared W. Young, Ph.D.
- L. Trevor Young, M.D., Ph.D., F.R.C.P.C., F.C.A.H.S.
- Jon-Kar Zubieta, M.D., Ph.D.

Members Emeritus

- George K. Aghajanian, M.D.
- BJ Casey, Ph.D.
- Dennis S. Charney, M.D.
- Jan A. Fawcett, M.D.
- Frederick K. Goodwin, M.D.
- Kenneth K. Kidd, Ph.D.
- Philip Seeman, M.D., Ph.D.
- Ming T. Tsuang, M.D., Ph.D., D.Sc.
- Mark von Zastrow, M.D., Ph.D.



We Welcome Our 10 Newest Members

Led by Dr. Herbert Pardes, the founding President of our Scientific Council, an all-volunteer group of pre-eminent 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 health.

We welcome our 10 newest members.

“Since 1987, BBRF has awarded more than \$394 million to fund more than 4,700 leading scientists around the world, which has led to over \$3.9 billion in additional funding. We are pleased that these 10 leading experts in their fields have joined the Council and will help in selecting the best and brightest ideas in brain research to receive our grants.”

— Dr. Herbert Pardes



SUSANNE AHMARI, M.D., PH.D.
Assistant Professor, Psychiatry
University of Pittsburgh



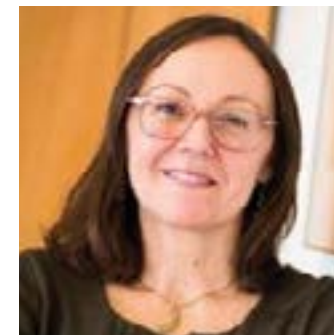
JAMES M. GOLD, PH.D.
Professor of Psychiatry
University of Maryland School of
Medicine / Maryland Psychiatric
Research Center



VICTORIA ARANGO, PH.D.
Professor of Neurobiology,
Psychiatry
New York State Psychiatric Institute
/ Columbia University



JOAN L. LUBY, M.D.
Samuel and Mae S. Ludwig
Professor of Psychiatry (Child);
Director and Founder, Early
Emotional Development Program
Department of Psychiatry
Washington University School of
Medicine in St. Louis



PAOLA ARLOTTA, PH.D.
Chair, Harvard Department of
Stem Cell and Regenerative
Biology
Stanley Center for Psychiatric
Research, Broad Institute, Harvard
University / McLean Hospital



MARIA A. OQUENDO, M.D., PH.D.
Professor and Chairman of
Psychiatry
University of Pennsylvania



RALPH J. DILEONE, PH.D.
Professor of Psychiatry &
Neuroscience
Yale University School of Medicine



STEPHEN M. STRAKOWSKI, M.D.
Associate Vice President,
Regional Mental Health;
Professor and Chair,
Department of Psychiatry
Dell Medical School / University of
Texas at Austin



GUOPING FENG, M.D., PH.D.
Poitras Professor of Neuroscience,
McGovern Institute for Brain
Research, Department of
Brain Cognitive Sciences at
Massachusetts Institute of
Technology.
Director of Model Systems and
Neurobiology,
Stanley Center for Psychiatric
Research at Broad Institute of MIT
and Harvard. Research at Broad
Institute of MIT and Harvard.



ARISTOTLE N. VOINESKOS, M.D., PH.D.
Director, Slaight Family Centre
for Youth in Transition; Associate
Professor, Department of Psychiatry
Centre for Addiction and Mental Health
/ University of Toronto, Canada

Recovery Research Programs

Since 1987, BBRF has funded grants to more than 4,700 scientists around the world who are researching better treatments and cures for mental illness. Because BBRF's operating costs are covered by two generous family foundations, **every dollar donated for research goes directly to support research.**

Addiction Research Program

117 GRANTS AWARDED
37 SCIENTIFIC COUNCIL SPECIALISTS

ADHD Research Program

49 GRANTS AWARDED
23 SCIENTIFIC COUNCIL SPECIALISTS

Anxiety Research Program

153 GRANTS AWARDED
47 SCIENTIFIC COUNCIL SPECIALISTS

Autism Research Program

177 GRANTS AWARDED
34 SCIENTIFIC COUNCIL SPECIALISTS

Bipolar Disorder Research Program

430 GRANTS AWARDED
48 SCIENTIFIC COUNCIL SPECIALISTS

Borderline Personality Disorder Research Program

14 GRANTS AWARDED
4 SCIENTIFIC COUNCIL SPECIALISTS

Depression Research Program

1,136 GRANTS AWARDED
68 SCIENTIFIC COUNCIL SPECIALISTS

Eating Disorders Research Program

39 GRANTS AWARDED
2 SCIENTIFIC COUNCIL SPECIALISTS

Obsessive-Compulsive Disorder Research Program

74 GRANTS AWARDED
20 SCIENTIFIC COUNCIL SPECIALISTS

Post-Traumatic Stress Disorder Research Program

136 GRANTS AWARDED
23 SCIENTIFIC COUNCIL SPECIALISTS

Schizophrenia Research Program

2,236 GRANTS AWARDED
80 SCIENTIFIC COUNCIL SPECIALISTS

BBRF Grants support the most promising ideas in brain research.

Funding is focused on four priority areas to better understand and treat mental illness, aiming toward prevention and cures:

BASIC RESEARCH

to understand what happens in the brain to cause mental illness

NEW TECHNOLOGIES

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

DIAGNOSTIC TOOLS AND EARLY INTERVENTION

research to recognize early signs of mental illness and begin treatment as early as possible

NEXT-GENERATION THERAPIES

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

2018 Research Grants

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

An independent measure of the success of our grants is a recent RAND Europe analysis of the global mental health research funding landscape over the previous five years.

This report found that we are the top non-government mental health research funder cited in published articles.

“The Brain & Behavior Research Foundation, through its grants program, has made an extraordinary contribution, not only in providing funds for psychiatric research, but in helping structure the field. BBRF is unrivaled in its innovative and expert approach to funding the most promising ideas in brain and behavior research. Its funding decisions are steered by the best scientists in the field and the research sponsored has continually led to important advances.”

**Eric R. Kandel, M.D.,
Nobel Prize Winner**
BBRF Scientific Council
1995, 2000 & 2005 Distinguished
Investigator Grant

Young Investigator Grants

BBRF Young Investigator Grants cover a broad spectrum of mental illnesses and serve as catalysts for additional funding, providing researchers with an opportunity to develop a “proof of concept” for their work.

Many Young Investigator grantees are pursuing basic research projects. Others are specifically focusing on new ideas for therapies, diagnostic tools, and new technologies. The 200 projects are innovative research that will provide future insights and advances that will help lead the fields of psychiatry and neuroscience forward. The projects reflect the remarkable dynamism of brain research.

An extraordinary aspect of many of the projects is their coverage of multiple disorders. In part, 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.

Young Investigator Grants provide each scientist with \$35,000 per year for two years, totaling \$70,000.

BBRF awarded a total of \$14 million to its 2018 Young Investigators, thus strengthening its investment in the most promising ideas to lead advancements in understanding and treating brain and behavior disorders.

“Young Investigator Grants enable outstanding scientists to pursue bold new ideas that expand our understanding of psychiatric illness and help identify potentially game-changing targets for treatment. In many cases, Foundation Grants offer the first critical support for a young scientist’s work that may not otherwise receive funding.”

Herbert Pardes, M.D.
President of the BBRF Scientific Council
Executive Vice Chairman of the Board of Trustees,
NewYork-Presbyterian Hospital

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

818 Applications
200 Grants Awarded
\$14 Million Awarded

2018 Grants by Illness

Institutions listed represent where grant was first awarded

ADDICTION

Hamed Ekhtiari, M.D., Ph.D.

Laureate Institute for Brain Research
Next-Generation Therapies

Mark Alexander Grainger Eldridge, Ph.D.

National Institute of Mental Health
Basic Research

Diana I. Escalona-Vargas, Ph.D.

University of Arkansas for Medical Sciences
Basic Research

Chiara Giuliano, Ph.D.

University of Cambridge, UK
Basic Research

Nicholas M. Graziane, Ph.D.

Pennsylvania State University
Basic Research

Rebecca Sue Hofford, Ph.D.

Icahn School of Medicine at Mount Sinai
Basic Research

Xuan (Anna) Li, Ph.D.

University of Maryland
Basic Research

Leah M. Mayo, Ph.D.

Linköping University, Sweden
Basic Research

Vijay Mohan K. Namboodiri, Ph.D.

University of North Carolina at Chapel Hill
Basic Research

Alexander C. W. Smith, Ph.D.

Icahn School of Medicine at Mount Sinai
Basic Research

Oliver Vranjkovic, Ph.D.

Vanderbilt University
Basic Research

Yi-Zhi Wang, Ph.D.

Northwestern University
Basic Research

Brandon Warren, Ph.D.

National Institute on Drug Abuse/NIH

BASIC RESEARCH

Sylia Wilson, Ph.D.

University of Minnesota
Basic Research

Sarah Winsland Yip, Ph.D., M.Sc.

Yale University
Diagnostic Tools/Early Intervention

ATTENTION-DEFICIT HYPERACTIVITY DISORDER (ADHD)

Atul Maheshwari, M.D.

Baylor College of Medicine
Basic Research

Aki Nikolaidis, Ph.D.

Child Mind Institute
Basic Research

Nikhil Urs, Ph.D.

University of Florida
Basic Research

ANXIETY

Nicholas I. Balderston, Ph.D.

National Institute of Mental Health
(NIMH/NIH)
Next-Generation Therapies

Tali Manber Ball, Ph.D.

Stanford University
Basic Research

Jeremy Stanford Biane, Ph.D.

The J. David Gladstone Institutes at the
University of California, San Francisco
Basic Research

Brendan E. Depue, Ph.D.

University of Louisville
Basic Research

Elliot Kale Edmiston, Ph.D.

University of Pittsburgh
Next-Generation Therapies

Alexxai V. Kravitz, Ph.D.

National Institute of Diabetes & Digestive
& Kidney Diseases, NIH
Basic Research

Jayne Morriss, Ph.D.

University of Reading, UK
Basic Research

Fernando M. C. V. Reis, Ph.D.

University of São Paulo, Brazil
Basic Research

Michael Grady Wheaton, Ph.D.

Barnard College, Columbia University
Basic Research

AUTISM / AUTISM SPECTRUM DISORDER (ASD)

Daniel Arthur Abrams, Ph.D.

Stanford University
Basic Research

Claudio Acuna-Goycolea, Ph.D.

University of Heidelberg, Germany
New Technologies

Benjamin D. Auerbach, Ph.D.

Research Foundation for the State
University of New York (SUNY) on behalf
of the University at Buffalo
Basic Research

Robert Paul Bonin, Ph.D.

University of Toronto, Canada
Basic Research

Simon Chen, Ph.D.

University of Ottawa, Canada
Basic Research

Crystal T. Engineer, Ph.D.

University of Texas at Dallas
Next-Generation Therapies

Aaron Gordon, Ph.D.

University of California, Los Angeles
Basic Research

Junjie Guo, Ph.D.

Yale University
Basic Research

Xin Jin, Ph.D.

Harvard University
Basic Research

Ruchi Malik, Ph.D.

University of California, San Francisco/
Gladstone Institutes
Basic Research

David A. Matuskey, M.D.

Yale University
Diagnostic Tools/Early Intervention

Galen Missig, Ph.D.

McLean Hospital/Harvard University
Basic Research

Tomasz J. Nowakowski, Ph.D.

University of California, San Francisco/
Gladstone Institutes
Basic Research

Neville Espi Sanjana, Ph.D.

New York Genome Center
Basic Research

Simon Thomas Schafer, Ph.D.

Salk Institute for Biological Studies
Diagnostic Tools/Early Intervention

Tingting Wang, Ph.D.

Georgetown University
Basic Research

Kai Yu, Ph.D.

Cold Spring Harbor Laboratory
Basic Research

BIPOLAR DISORDER

Jaroslav Bendl, Ph.D.

Icahn School of Medicine at Mount Sinai
Basic Research

Arianna Di Florio, M.D., Ph.D.

Cardiff University, UK
Diagnostic Tools/Early Intervention

BORDERLINE PERSONALITY DISORDER

Chui-De Chiu, Ph.D.

Chinese University of Hong Kong
Basic Research

DEPRESSION

Petr Bednarik, M.D., Ph.D.

Medical University of Vienna, Austria
New Technologies

Katie L. Burkhouse, Ph.D.

University of Illinois at Chicago
Next-Generation Therapies

Michelle Lynn Byrne, Ph.D.

University of Oregon
Basic Research

Erin S. Calipari, Ph.D.

Vanderbilt University
Basic Research

Frederic Christophe Casse, Ph.D.

University of Lausanne, Switzerland
Next-Generation Therapies

Meaghan Claire Creed, Ph.D.

University of Maryland
Basic Research

Nicole Ashley Crowley, Ph.D.

Pennsylvania State University
Basic Research

Alec Lindsay Ward Dick, Ph.D.

Max-Planck Institute of Psychiatry,
Germany
Basic Research

Riddhi Prakash Doshi, M.B.B.S., MPH, Ph.D.

University of Connecticut Health Center
Next-Generation Therapies

Ada Diane Eban-Rothschild, Ph.D.

University of Michigan
Basic Research

Katherine Babcock Ehrlich, Ph.D.

University of Georgia
Basic Research

Peter Grace, Ph.D.

University of Texas, MD Anderson Cancer
Center
Basic Research

Brendan Deegan Hare, Ph.D.

Yale University School of Medicine
Next-Generation Therapies

Alexander Z. Harris, M.D., Ph.D.

Research Foundation for Mental Hygiene/
NYSPI, Columbia University
Diagnostic Tools/Early Intervention

Lisa Holper-Nellen, M.D.

University of Zurich Brain Research
Institute, Switzerland
Diagnostic Tools/Early Intervention

David Mark Howard, Ph.D.

University of Edinburgh, Scotland
Diagnostic Tools/Early Intervention

Jessica Jenness, Ph.D.

University of Washington, Seattle
Diagnostic Tools/Early Intervention

Makoto Kawai, M.D.

Stanford University
Diagnostic Tools/Early Intervention

Kate Ryan Kuhlman, Ph.D.

University of California, Irvine
Basic Research

Autumn Joy Kujawa, Ph.D.

Vanderbilt University
Diagnostic Tools/Early Intervention

Salvatore Lecca, Ph.D.

University of Lausanne, Switzerland
Basic Research

Yi Lu, Ph.D.

Karolinska Institute, Sweden
Basic Research

Alexander McGirr, M.D.

University of Calgary, Canada
Next-Generation Therapies

Lisa M. McTeague, Ph.D.

Medical University of South Carolina
Next-Generation Therapies

Mark Ronald Mizee, Ph.D.

Netherlands Institute for Neuroscience,
The Netherlands
Basic Research

Marco Pignatelli, M.D.

National Institute on Drug Abuse
Next-Generation Therapies

Arjun Ramakrishnan, Ph.D.
University of Pennsylvania
Diagnostic Tools/Early Intervention

Robb Brooks Rutledge, Ph.D.
University College London, UK
Diagnostic Tools/Early Intervention

Durga Roy, M.D.
Johns Hopkins University School of Medicine
Basic Research

Katherine Scangos, M.D., Ph.D.
University of California, San Francisco/
Gladstone Institutes
New Technologies

Marianne Louise Seney, Ph.D.
University of Pittsburgh
Basic Research

Kanzo Suzuki, Ph.D.
University of Texas Southwestern Medical
Center at Dallas
Next-Generation Therapies

Benjamin Seavey Cutler Wade, Ph.D.
University of California, Los Angeles
Diagnostic Tools/Early Intervention

Christian Anthony Webb, Ph.D.
McLean Hospital/Harvard University
Diagnostic Tools/Early Intervention

Nolan Ryan Williams, M.D.
Stanford University
Next-Generation Therapies

EATING DISORDERS

Estefania Pereira Cardoso Azevedo, Ph.D.
The Rockefeller University
Basic Research

Fabricio H. Do Monte, Ph.D.
University of Texas Health Science Center
at Houston
Basic Research

Cindy Cherise Hagan, Ph.D.
California Institute of Technology
Basic Research

Carol Kan, Ph.D.
Institute of Psychiatry, King's College
London, UK
Basic Research

“When I received the award from the BBRF it was a really challenging time in my research career. I had been in a lab for about two years. My whole scientific career depended on a \$60,000 piece of equipment and then all of sudden I was cut off. It turns out that it was only because I received the Young Investigator award at this same time that I was able to buy my own piece of equipment to do the project I needed to do. That got me my next YI award and then a K Award from the NIMH. I really doubt I'd be standing here as the director of the NIMH if I hadn't been able to jumpstart my career with the help of the BBRF.”

Joshua Gordon, M.D., Ph.D.

Director of the National Institute of Mental Health (NIMH)
BBRF Scientific Council Member
2003, 2001 Young Investigator Grant

Sung Il Park, Ph.D.
Texas A&M University
Basic Research

Sarah A. Stern, Ph.D.
The Rockefeller University
Basic Research

BIOLOGY OF THE BRAIN

Brain Stimulation
Evangelos Antzoulatos, Ph.D.
University of California Davis Medical
Center
New Technologies

Early-life Stress
Jessica Lynn Bolton, Ph.D.
University of California, Irvine
Basic Research

Biomarkers
Alexander William Charney, M.D.
Icahn School of Medicine at Mount Sinai
Diagnostic Tools/Early Intervention

Stress and Sleep
Shinjae Chung, Ph.D.
University of Pennsylvania
Basic Research

Learning and Memory
Giannina Descalzi, Ph.D.
New York University
Basic Research

Dopamine System
Aliza T. Ehrlich, Ph.D.
McGill University, Canada
Next-Generation Therapies

Brain Patterns in Sleep
Maria Jose Galazo, Ph.D.
Tulane University
Basic Research

Substance Use and Epigenetics
Suhas Ganesh, M.D.
Yale University
Basic Research

Attention
Adam John Granger, Ph.D.
Harvard Medical School
Basic Research

Apathy and Motivation
Tobias U. Hauser, Ph.D.
University College London, University of
London, UK
Basic Research

Diagnostic Tools
Yungil Kim, Ph.D.
Icahn School of Medicine at Mount Sinai
Diagnostic Tools/Early Intervention

Decision-Making
Shinichiro Kira, M.D., Ph.D.
Harvard Medical School
Basic Research

Decision-Making
Aaron Christopher Koralek, Ph.D.
Columbia University
Basic Research

Dopamine System
Polina Kosillo, Ph.D.
University of California, Berkeley
Basic Research

Memory
Kishore V. Kuchibhotla, Ph.D.
Johns Hopkins University
Basic Research

Genetic Damage
John R. Lukens, Ph.D.
University of Virginia
Basic Research

Dopamine and Reward
James W. Maas, M.D.
University of California, San Francisco/
Gladstone Institutes
Basic Research

Brain Development
Simone Mayer, Ph.D.
University of California, San Francisco/
Gladstone Institutes
Basic Research

Visualizing Neurons
Arnab Mukherjee, Ph.D.
University of California, Santa Barbara
New Technologies

Connectivity
Michael Murphy, M.D., Ph.D.
McLean Hospital/ Harvard University
Basic Research

Early-life Abuse
Maya Mikhailovna Opendak, Ph.D.
Nathan S. Kline Institute for Psychiatric
Research
Basic Research

Gender Differences and Stress
Abigail Marie Polter, Ph.D.
George Washington University
Basic Research

Expectation Bias/Inflexibility
Erin Leigh Rich, M.D., Ph.D.
Icahn School of Medicine at Mount Sinai
Basic Research

Cognitive Reappraisal/Flexibility
Maureen Elizabeth Ritchey, Ph.D.
Boston College
Basic Research

Imaging
Kerstin Ritter, Ph.D.
Charité-University Medicine Berlin Freie
Universität Berlin, Germany
Diagnostic Tools/Early Intervention

Motivation
Mark A. Rossi, Ph.D.
University of North Carolina at Chapel Hill
Basic Research

Coping Behavior-Orexin System
Robert Sears, Ph.D.
Nathan S. Kline Institute for Psychiatric
Research
Basic Research

Modifying Neural Circuits
Jerzy Olgiard Szablowski, Ph.D.
California Institute of Technology
New Technologies

Genetic Regulation
Hyejung Won, Ph.D.
University of North Carolina at Chapel Hill
Basic Research

Social Isolation
Ofer Yizhar, Ph.D.
Weizmann Institute of Science, Israel
Basic Research

MULTIPLE DISORDERS

Schizophrenia, Addiction
Davide Amato, Ph.D.
Medical University of South Carolina
Basic Research

Addiction, OCD, Depression
Matthew Ryan Banghart, Ph.D.
University of California, San Diego
Basic Research

PTSD, Anxiety
Christian R. Burgess, Ph.D.
University of Michigan
Basic Research

Depression, Anxiety
Samuel William Centanni, Ph.D.
Vanderbilt University
New Technologies

Schizophrenia, Bipolar Disorder
Michael Ben Clark, Ph.D.
University of Oxford, UK
New Technologies

Anxiety, PTSD
Cyril Dejean, Ph.D.
INSERM, France
Next-Generation Therapies

OCD, Addiction, ADHD
Becket Ebitz, Ph.D.
University of Minnesota
Basic Research

ADHD, Autism, Schizophrenia
Evan Harriman Feinberg, Ph.D.
University of California, San Francisco,
Gladstone Institutes
Basic Research

Tourette, OCD, Autism
Daniel John Foster, Ph.D.
Vanderbilt University
Next-Generation Therapies

Bipolar Disorder, Suicide
Dorian Ashley Lamis, Ph.D.
Emory University School of Medicine
Basic Research

Anxiety, Panic Disorder
David MacLean, Ph.D.
University of Rochester
Basic Research

Depression, Anxiety
Stefanie Malan-Muller, Ph.D.
The University of Stellenbosch, South
Africa
Basic Research

Anxiety, PTSD, Panic Disorder
Rachel Denise Moloney, Ph.D.
University of Cincinnati
Basic Research

Autism, Schizophrenia
Anna Rachel Moore, Ph.D.
Temple University
Basic Research

Depression, Alzheimer's Disease
Ines Moreno-Gonzalez, Ph.D.
University of Texas Health Science Center
at Houston
Basic Research

Anxiety, ADHD
Sahana Murthy, Ph.D.
Princeton University
Basic Research

Depression, Anxiety, OCD
Benjamin Okaty, Ph.D.
Harvard University
Basic Research

Autism, OCD, Tourette**Scott Owen, Ph.D.***The J. David Gladstone Institutes*
Basic Research**Autism, Schizophrenia****Mercedes F. Paredes, M.D., Ph.D.***University of California, San Francisco/*
Gladstone Institutes
Basic Research**Depression, Suicide****Stephane Richard-Devantoy, M.D., Ph.D.***McGill University, Canada*
Basic Research**Schizophrenia, Psychosis****Srivatsun Sadagopan, Ph.D.***University of Pittsburgh*
Basic Research**Addiction, ADHD, Borderline Personality Disorder****Sandra Sanchez-Roige, Ph.D.***University of California, San Diego*
Basic Research**Depression, Anxiety, PTSD****Aparna Shah, Ph.D.***Johns Hopkins University*
Basic Research**Epilepsy, Schizophrenia, Autism****Lakshmi Subramanian, Ph.D.***University of California, San Francisco/*
Gladstone Institutes
Basic Research**ADHD, Addiction, Depression****Emily Lauren Sylwestrak, Ph.D.***Stanford University*
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Basic Research**Fragile-X, Autism, Epilepsy****Nien-Pei Tsai, Ph.D.***University of Illinois at Urbana-Champaign*
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“When you receive a BBRF Young Investigator grant it makes you feel like a real scientist and that somebody believes in you and your work.”

Anissa Abi-Dargham, M.D.

BBRF Scientific Council Member

2018 Lieber Prizewinner for Outstanding Achievement in Schizophrenia Research

2002 Klerman Award Honorable Mention

2008 Distinguished Investigator Grant

2000 Independent Investigator Grant

1997, 1993 Young Investigator Grant

The Pardes Humanitarian Prize in Mental Health

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

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 both in the developed world and in developing countries.

Established in 2014, the Pardes Humanitarian Prize is named in honor of Dr. Herbert Pardes, the first recipient of the award.



Dr. Herbert Pardes, Bob Wright (Honorary Pardes Humanitarian Prize in Mental Health Prizewinner), Judge Steven Leifman, (Pardes Humanitarian Prize in Mental Health Prizewinner) and Dr. Jeffrey Borenstein.

In 2018 the Pardes Humanitarian Prize in Mental Health was sponsored in part by Janssen Research & Development, LLC, one of the Janssen Pharmaceutical Companies of Johnson & Johnson.



WINNERS

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.

International Symposium and Awards Dinner

October 26, 2018



Opening remarks were given by Dr. Jeffrey Borenstein



2018 BBRF Outstanding Achievement Prizewinners. From L to R: Dr. Xiao-jing Wang, Dr. Jean-Pierre Changeux, Dr. Benjamin Goldstein, Dr. Joseph Piven, Dr. Kristen Brennand, Dr. Anissa Abi-Dargham, Dr. Herbert Pardes, Dr. Guillermo Horga, Dr. Jeffrey Borenstein, Dr. Schahram Akbarian, and Dr. Ami Klin.



Dr. Helen Mayberg, BBRF Scientific Council Member and Stephen Lieber, BBRF Chairman of the Board.

Photos this page by Chad David Kraus

Breaking the Silence about Mental Illness Luncheon

May 5, 2018



Ellen Levine, Dr. Jeffrey Borenstein, and Anne Ford.



Carole Atkinson, Suzanne Golden, Ornella Morrow, Carole Mallement, Judy Daniels, Virginia Silver, Sheila Scharfman, Bonnie Hammerschlag, Ellie Hurwitz, and Beth Elliott.

Team Up for Research 2018 Highlights



Receiving donations from Gravity Blankets and the "Elvis Duran and the Morning Show" at iHeartRadio.



Hike for Mental Health donated more than \$54,000 to BBRF through their charitable efforts. Pictured: Leo Walker and Dr. Jeffrey Borenstein.

Scientific Council Dinner & Klerman & Freedman Awards

July 27, 2018



The Klerman & Freedman Prizewinners and honorable mentions — Dr. Christina M. Gremel, Dr. Byungkook Lim, Dr. Herbert Pardes, Dr. Ueli Rutishauser, Dr. Timothy Y. Mariano, and Dr. Albert R. Powers III.



Dr. Joshua Gordon, Director of the NIMH and Dr. Herbert Pardes (Scientific Council).

Photos this page by Chad David Kraus



Behaviour Interactive Inc. has provided over \$500,000 to BBRF through their charitable initiative. Pictured L to R: Dave Richards, Sophie Laplante, Olivier Latanicki, and Dr. Jeffrey Borenstein at the BBRF 2018 Symposium.



Screen shot of "The Game Theorists" YouTube charity livestream, benefitting BBRF and raising over \$200,000.

Donors – Thank You

The generous support of our donors is what allows us to celebrate more than 30 years of remarkable research achievements. We're honored by the trust you, our donors, have placed in the **Brain & Behavior Research Foundation** to fund the development of new treatments, cures, and methods of prevention to help alleviate the suffering caused by mental illness.

"We chose the BBRF because it aligned with a few of our core giving goals this year. First, the organization specifically targets the underlying issues behind the world's most prevalent and debilitating mental disorders, so rather than treating the symptoms, they're working toward cures. As people who have family members, loved ones, and many in our community who suffer from a range of mental illnesses, our sights are set on long-term solutions for them, not surface-level treatments. In addition, we really appreciated that the BBRF provides support to research internationally, which meant that our global fan base could all contribute to research efforts that felt close-to-home, rather than a charity that only helps American scientists.

MatPat & Stephanie Patrick
(The Game Theorists)

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Oh Se-Hun
Theresa Selvaggio
Christina Selvaggio-Reeser
Jessica Sendef
Sera
Fallon Serafin
Tanya Seredin
Renae Sesack
The Sevick Family
Saba Shabdiz
Jerika Shadomy-Spencer
Nancy J. Shaffer
Malav Shah
Kim Shay
Taylor Shea
Tara Shea-Sledge
Aaron Sheafor
Jocelyn Jocey Sheff-Silver
David Sheldon
Xiuli Shen
The members of the Shenandoah
Clubhouse Valley Community
Services Board
Margot Shenton
Sarah Shinn
Kat Shinoda
Melissa Shiprek

Ships Have Sailed (Will & Art)
Kimberly Shirk
Alex Shiue
William C. Shiver
Leah Shore's 2012 "Old Man"
documentary film
Blake Shugarman
Annemarie Sias
Lilian Sicular
Hafsa Siddika-Imam
Ashley Sieg
Renee Siegel-Rothwell
Sydney Alexis Siegler
Ashton Silva
Jinny Silver
Dr. and Mrs. Mark Silver
Alexis Silvestro
Marcia Simon-Kaplan
Michael Simos
Julia Sinitsyn
Johnny Sirulnick
Derek Sitter
Nick Skardarasy
Victoria Slavinsky
Hana Sminkey
Amanda Smith
Brad Smith
Glen M. Smith
Jason Smith
Karen Smith
Livy Smith
Michael Smith
Natalie Rose Smith
Nathan Smith
Richard and Sue Smith
Shane Smith
Shannon Smith
Debra Smith-Ricchio
Taylor Smithson
Mary Kate Smyser
Shianne Sneider
Kathryn A. Snow, LCSW
Shannon R. Snyder
Tim Snyder
Ash Sofaer-Morse
Toni Sofia
Caitlyn Solem
Stephanie Sommers
Kelly James Sonnier
Alecia Soyk-Manning
Mike Soyka
Alan Spandorf
Carla Spellman
Michael Spinell
Mary St. Laurent
Michael St. Thomas
Zakary Stahlsmith
Steve Stander
Julie Stankiewicz

Hazel and David Stanley
 Lisa Stanley
 David and Donna Steadman
 Ruby Stearns
 Jennifer Steese
 Alan L. Steinberg, M.D.
 Heather Stenberg
 Andrew Stephens
 Jacob Stephens
 Ranjana Sterling
 Jacqueline Stern-Bellowe
 Mason Steuart Maulsby
 Dr. Catherine Stevenson
 Autumn Stewart
 Brent Stewart's daughter, Laura
 Katie Stewart
 Rebecca Stewart
 Drue Stinnett
 Dr. Desanka Stipic
 Trevor-Stolarz-Bauer
 Augusta Stone
 Allison Stone-Slutsky
 Robin Storie
 Christine Stover
 Emma Straus
 Jess Strazzere-Hubis
 Lucille A. Streim
 Klaira Strickland
 Ben Stubbington
 Joy Stukel
 Lori Sturdevant
 Jan Stypka
 Savannah Suarez
 Amna Sultan
 Michael Summers
 Erik Sutter
 Andrew Šveikauskas
 Carley Sweeney
 Evie Sweeney-Naranjo
 Sara Sweetbaum-Treiber
 Rachel Switlick
 Mohammad Tabib
 Dalton Tadeu-Mourao
 Nick Talisman
 Peter J. Tarr, Ph.D.
 Caryn Tate
 Keshia Tatro
 Michael Tavarone
 Megan Taylor
 Victoria Taytro
 TC
 Brendan Teevan's Grammy
 Julohn Teixeira
 Marian Templeton
 Gracelynn Tenaglia
 Ronald Tep
 Jackie Terry
 Matthew Terry
 Ali Tesh

Scott L. Thaler
 In honor of the sweet, sweet boys
 and girls in chat room (turbosnack)
 Samwise The Brave
 Kendrick Thehighlander
 Alex Thiel
 Gwen Thien
 James C. Thies
 Melissa Thill
 Amy Thomas
 Rebecca Thomas
 Sarah Thomas
 Alicia K. Thomasson
 Danny Thompson
 Elizabeth Thompson
 Gracie Thompson
 Megan Thompson
 Ronald Thornton
 Those who never give up!
 Those who suffer from brain illnesses.
 Those whom have earned it!
 Anisa R. Threlkeld
 Angela-Marie Tiberi
 Tina
 Warren Tioxon
 Lauren Tobin
 Bosworth M. Todd, Jr.
 Barbara Toll
 Alexandra Tomko
 Kirsten Tomlin
 Kathee Tomlinson
 Isabella Ton's Mom
 Emma Townsend
 Kaylin Townsend
 Howard Trachtman
 Gracie Tracy
 Erin Trahan
 Eileen Trainor
 Marcin Treder
 Benjamin Treuhaft
 Alida Trevino
 Madeline Triolo
 Kacie Tripp
 Nhi Truong
 Ya-Ju Tsai
 Matt Tucker
 Paula Tudorof's brother
 Raymond Turco
 Lynn Turner
 V. Turner
 Paige Tusieseina
 Stephanie Twardak
 Jenna Ucbo
 Adi Uchendu
 Hydee Umali-Abarintos
 Universal Love
 Susan E. Unvarsky
 Martin Ureel
 Iulia Vădeanu

Logan Vagan
 Kahan Vaidya
 Isabelle Valdez
 Anne Vallet-Addison
 Dr. Peggy van Raalte and
 Mr. Barry Abbott
 Jessika Vance-Martin
 Joanna Vandyke
 Brenda Van Horn
 Moira Vasquez
 Julia Vassallo
 Christiana Vastardis
 Robert-Harold Vaughan
 Ronald E. Veiders
 Courtney Ventry
 Brandon Verde
 Emily Vergo
 Deandra Vetter
 Natalie Vetter-Vessels
 Davide Vicari
 Ben Vickers
 Izabella Victores
 Jennifer Victores
 Meg Vidler
 Maddie Vidman
 Manny Villarreal
 Andres Villasmil
 Lauren Vinae
 Steven Vinton
 Jorge Viramontes
 James M. Visalli
 Amanda Voelker
 William Vogtritter
 Michael Vollmar, M.D.
 Alysa Volpe
 The von Boeselagers:
 Erich, Kurt and Marti
 Johnny W.
 Kevin W.
 Richard L. Wagar
 Katherine Wagner
 Katie Wagner
 Wren Wagner
 Katerina Wahl
 Richard E. Wahlfeldt
 Brett Walker
 Courtney Walker
 Tara Walker
 Sharyn Walkin
 Malia Rose Wallace
 Barbara Wallisch
 Christina Walters
 Izzy Walters
 Paige Waltman
 Wilson Walz
 Carmen Wang
 Joice Wang
 Willow Warbler, LV
 Maci Ward

Sherry Warren
 Bob and Regina Waterhouse
 Maegan Watson
 Marissa Watson
 Nick Watson
 Rhiannon Alexa Watters
 Kevin Weber
 Blake Webster
 Alex and Emily Weckiewicz
 James William Francis Wedgewood
 Rachel Weeks
 Stephen Weet-Larcovic
 Sharon Weinberg
 Tom Weis
 Robert and Frances Weisman
 Myrna M. Weissman, Ph.D. and
 James C. Frauenthal, Ph.D.
 The Wells Family
 Mel Welsh
 Brandalyn Marie Wenzel
 July Werner
 Elizabeth Werth
 Allie West
 Nathan Westcott
 Rochelle Westerhaus
 Sharon Whaley
 Matt Wheeler
 Jesse Ray Whipple
 The White Families (2)
 Sydney White
 The Whitney Newlyweds
 Jeff Wichman
 Brian Wicks
 Jonathon Widener
 Karen Widmer
 Shelby Wiedrich
 Acie and Jean Wiggins
 John Wiggins
 Kevin Wiggins
 Jerrod Wikle
 Christine Wiley
 Jaclyn Wilfong
 Jessi Wilkerson
 Laurie Wilks
 Christian Willenbacher
 Alex Williams
 Angel Williams
 Calvin Williams
 Dr. Nancy Williams
 Sam Williams
 Shawn B. Williams
 LaurieWilliams-Wheeler
 Martin S. Willick, M.D.
 Amanda Willis
 Kassie Willis
 Faye Wilson
 Janelle Malta Wilson
 Kevin Wilson
 Morgan Wilson

Sara Catherine Wilson
 Jeff Winchell
 Max Winne
 Kara Winter
 Sage Winter-McGinley
 Caity Wintergrass
 Janine Winters
 Sigrid Wise
 Connie L. Wiseman
 Megan Wiseman
 Christina Wittmeier
 Denessa Woisin
 Bonnie Wolf
 Marsha Wong
 Jessica Wood
 The Woodward Family
 Tim Wright
 The Wright Family
 Szuhsuan Wu
 Tiffany Wu
 www.reddit.com/user/wittyandpithy
 Xenmate
 XxX__R4n33mxXX
 Mike Yamanaka
 Kelli Yapp
 Julie Yeko
 Judi Yonai
 Lana Yoon
 Wes York
 Karen You
 Ms. Youn
 Coleman Young
 Josh Young
 Marcus Young
 Michael Young
 Claire Youngquist
 Yuri
 Asghar Zaida
 Julie Zaiontz
 Ethan H. Zambrano
 Jamie Zarza-Thomas
 Tyler Zboran
 Dana Zea
 Alex Zeigler
 Don Zeigler
 Aaron J. Zemel
 Antonia Mila Zen
 Renee S. Zenker's Son and his recovery
 Sherry Zeshonski
 Jinyan Zhan
 Tina O. Zhu
 Maggie Zimmerlin
 Nicholas F. Zolman
 Mike Zoric
 David Zuckerman

Memorial Tributes
 10 Lives Lost at Santa Fe High School
 Honoring the memory of the
 17 victims in Florida
 A loved one
 Richard "Hil" Hilstad Lee Abbott
 John "Jed" B. Abrams
 Marc D. Abrams
 Michael Adams
 Phillip "Phil" M. Adams
 Randall E.J. Adams
 Elizabeth "Biz" Adams-Addorio
 Cecilia Adamski
 Jean M. Ahern
 AJD
 Logan Albers
 Nicholas R. Albers
 All the young lives lost due to bullying
 and peer pressure.
 Connor Allard
 Sharon Allen
 Janice M. Allison
 Judith Allison
 Vincent S. Amoroso, Jr.
 Andy Anderson
 Louis M. Anderson, Jr.
 Mark H. Anderson
 Philip "Phil" D. Anderson
 Silas E. Anderson, Jr.
 Susan "Sue" K. Anderson
 Carl C. Angell
 Christina E. Angelo
 Annie
 Charles "Chuck" Theodore Apt, Jr.
 Marisa Arango
 Annie B. Armstrong
 Anthony "Tony" P. Arsneault
 Estelle Arvey
 Susan Assisi
 Melvin Asterken
 Bahman Atefi, Ph.D.
 Jeri A. Austin
 Lindsay Aversano
 Christopher J. Awn
 John J. Awn, Jr.
 Julius Axelrod, Ph.D.
 David L. Ayers
 Arthur Aylem
 James "Jim" M. Bachner
 Grant Backerman
 William "Liam" P. Badalamenti
 Jacqueline Badgett
 Jimmy Bailey
 Gregory T. Bak
 Nicholas Baker
 Anna Balek
 Scott Balgemann
 Gretta Ballew-Davidow's mother
 Robert P. Banghart

Samuel C. Banks
Cynthia L. Barazowski-Kassel
Robert "Rob" J. Barlow
Brent Barnes
Gabe Barrick
Allie Barrow
Dana Barthle
Scott R. Bartlett
Judith A. Baskin
Brian A. Bass
Ronald C. Bates
Don Bauermeister
Pauline A. Baumgartner
John B. Bayliss, Ph.D.
Hy Bear
Ann Beckett-Herring
Jordan P. Bedard
Dr. William Beedles
John Bejarano
Bryton Bell
Beloved Moss
Brian J. Bengston
Rev. Richard Benken
W. Brent Bennett
Chester C. Bennington (Linkin Park)
Benny
Tim Bergling (AVICII)
Karen M. Bergstrom
Janet L. Bernard
Rafael Berrios, M.D.
Katherine Berry's friend, Sarah
Geraldine M. Bertani
Jerry Bets
Lyndell Betzner
Brian A. Bezonsky
Kevin M. Bezonsky
Deepak Bhasin
Jack Bigelow
Stephen J. Binder
Edward "Ned" S. Bisshopp
Dr. Morton Black
Andrew Blackton
Michael "Mike" R. Blanton
Heather A. Bleick
Blip
Alan W. Block
Miriam "Mimi" Brooka Blumenfeld
Albert Bock
Ellen Bockhaus
Charles F. Bodden, Sr.
Kirk Boise
Wesley J. Bollinger
Kelvin Boney
David W. Borks
Timothy Botbyl
Anthony Bourdain
Justin E. Boykin
Emily Boyle
Eric Brady

Joseph Bralecchitta
Kay L. Brandenburg
Kari Beth Brandon
Walter A. Brantley
Angela Brayer-Wilson
Christopher D. Brehl
Sean Brenchley
David Breuer
Mary J. Brewin
Scott Brill
Armando Brock
Catherine Brody
John W. Brooke
Kelsey R. Brouillette
Frieda R. Brown
Kent H. Brown II
Adam D. Bruckner
Grant "Toby" H. Brundage III
Irving "Irv" Buitrago
Walter W. Bundschuh
Peter R. Bunning
Michael J. Burk
Colleen M. Burke
Marshall Burluson
Bernadette R. Burns
Charles "Chase" A. Burns
Kimberly A. Busfield-Mahoney
Kyle L. Butler
Daniel C. Buzzeio, Jr.
Gerald A. Byers
Michael J. Byrnes V
Mona E. Byrnes
Thomas J. Byrnes, Sr.
Michael J. Caeton
Caleb
Robert Cameron
Harriet Caplan
Diane Cardilla
J. William "Bill" Caretti, M.D.
Mary Jane T. Carey
Dennis J. Carlton
Jeffrey T. Carlton
Nathan Carreira
Dolores Carrillo
Richard M. Casey
The Casey Family
Dwight D. Cassidy
Suzanne L. Castellani
Christina M. Castellaro
Garvin Chandler
Noreen Charters
James Chasse
Scott M. Chauvin
Pvt. Danny Chen
Donald Cheney
Dale R. Cherney
Matthew Cherney
Wong Chung Ming Chiu
Allison A. Chlan-Fellner

Chris
Therese A. Christian
Tahkota T. Christiansen
Martha M. Christison
Marie Cilli
Cindy
Charles "Chuck" Cinnamon
CL
Kathleen Clark
Mary "Bridie" B. McKenna Clarke
Theodore "Ted / Teddy" J. Clayton III
Eva L. Cobau
Mark A. Cochran
Gina C. Collins-Eichelberger
Katie Collinsworth
Alec Colón
John L. Concannon
Janet Connolly-Berens
Marion T. Conran-Donovan
Sarah Conroy
Jay Cook
Ryan J. Cook
Bill Cookson
Daniel C. Cooper, Ph.D.
Tommy L. Cooper
David Cooper-Claire
Diane Cory
Wilson Cory
James Cosgrove
Ben J. Costa
Robert R. Coto
Norman R. Coutu
Cory Cowick
Adam Crandall
Kalena Crews
Madison Crocker
Anita C. Cronin
Ryan R. Crookston
Kathy Crow-Collins
Patricia A. Cudworth
Teresa L. Cumber
John "Jake" Cusano III
Maureen C. "Reenie" Daggett
Richard G. Dalcourt
Colter Dallman
Richard D. Daly
Margaret M. Dann
Scott Darby
Dan Davenport's brother, Matthew
Little David
Garrison H. Davidson, Jr.
Gretta Davidson
Raymond Davis
Terry A. Davis
Mary Jean Dawson-Hume
Jan B. de Bakker, M.D.
Erwin Dirk de Vlas
A. Louise DeAngelis
Dorothy "Dottie" Deeb

Douglas H. DeFreest, Jr.
Joseph Del Monaco
Kasie Del Otero
Susan DelCastillo
Christopher J.E. Delgado
Francene "Franny" De Meis
Katherine Deschner
Emmett Desroches
Henry "Hank" J. Deutschendorf II
(Hank's Hope for a Cure)
James DeWolfe Smith
Nathaniel J. Dickinson
Dustin M. Dilley
Restituta "Ida" DiMeglio-Adriani
Hans Dirndorfer
Theresa Dirndorfer
Heidi A. Diskin
Brandon Dixon
John L. Dixon, Ph.D.
Jonathan E. Dixon
Charles C. Dolby
Jim Donahue
Timothy G. Donley
Una G. Donnelly
Francis "Frank" J. Donovan, Jr.
Karen Doughty
Rachel L. Drabenstott
Lowell Dray
Sandra G. Dreyfuss
Maxine Driscoll
Mary Jo Drozdowski-Duncan
Laury Dryden
Michael Ducate
Christopher R. Dugan
Kimberly "Kimmy" Duke
Sidney Dully
John duMenil
Terry S. Duncan
Aaron C. Dunn
James "Jim" J. Durkin II
Christopher C. Dwyer
Tim Dwyer
Randy Eckman
Ronald "Ronnie" Oni Edwards
Thea Eichler
David Einerson
Daniel M. Eisenbud
Sean T. Elkind
Kevin J. Ellison
Karl J. Emerick, Jr.
Craig Emery
Josiah Epps
Paul J. Esposito
Tom Etu
Marian "Molly" Peabody Everdell
Jeanne Everette
Brian "Whitey" S. Evers
Christopher "Chris" H. Ezzell
Lance H. Fabrizio

Maureen Fadal
Benjamin C. Faetanini
Fuad Faiz
Guadalupe G. Falcon
Leslie E. Falzone
Hilliard Farber
Peggy Farnsworth
Garrett R. Farr
Matthew J. Fee
Seymour Feinland
Charles Feldman
Shirley Feldman
Alec Fentum
Charles Ferrara
Jango Fett (Star Wars character)
Catherine Finn
Robertta Fisher
Ruth Fishman
Douglas N. Flesch
Raymond J. Flood, Jr.
Trocar Flook
Josh R. Fonner
Jessica A. Forbes
Joanne Foulk
Austin B. Frazier
Dr. Frederick "Fred" J. Frese III
Harvey Friedenber
Jason C. Frisco
Steven Fulton
Christopher Furay
Pamela Furrer
Gretchen Fyfe-Juknevicus
Stephanie N. Gafford
Stanton E. Gagel
David Gallander
John Gallander
Judy Galloway
Andrew S. Garner
Michael Garstecki
Victoria Mae Gaughran
Martin Geisser
Dolores A. Gerold
Ali Ghomizadeh
Kenneth "Ken" A. Gibson
Steven H. Gibson
Jason E. Gilbert
Lynda L. Gilchrest
Reverend T. Edward Giles
Ted R. Giles
Michael P. Gilliland
Wendy A. Giurleo
Mother of Rachel Glait's friend
David M. Glanzer
Jonathan Gleason
Kyle W. Glenn
Daniel J. Glorioso
John Gnuechtel
Brian D. Go
Jacob S. Godfrey

Geraline Golden
Sydney Goldstein
Molly Goltman-Sashkin
Nathan M. Gonzales
Paul Goodman
Ethel G. Gordon
Paula Jean Gorman
Ted A. Gorman
Prof. Gilbert Gottlieb
Frederick C. Grab
Bill Graham
Adam J. Grainawi
William Francis Grant 1st and 2nd
Adam Graser
Erika L. Grasmick
Albert "Albie" Grassi
Susan J. Gray
David E. Green
Rance P. Green
Elaine Greenblatt
Mary Greener
Mark J. Greenlee
Matthew J. Gregory
Megan R. Grigor
Tristen L. Grittner
Gary Grunwald
Carmen Y. Guerra
Thomas S. Gumport
Peter A. Guinness
Amanda G. Gurley
Thomas Haas
Christopher B. Hafner
Elaine Hagebush
Carol Hagopian
Jeffrey A. Hair
Ciara Anne Hall's brother
Nikki Hall's brother
Douglas Hamm
Wilma Hammerle
Benjamin G. Hammerschlag
Henry "Hank" Hanau
Mary Lou Hardaker
Christopher Harden
Matthew "Matt" J. Hardin
Edmond "Ed" Hardy
Jason R. Hargarten
Margaret Harrington
Alden Harris
Jordan E. Harris
Gary E. Hart
Harriet Hart
Victoria Hart
Mark H. Hatch
Cole D. Hawkins
Lindsay Hawley
Michael Heafield
Kevin Heald
Nicholas "Nick" Healey
Darel T. Heath

Jimmy Hehir
 Craig A. Heichel
 Bradley R. Heilman
 Richard T. Heller
 Thomas G. Helmle
 Philip "Phil" J. Hewes
 Wayland Hicks
 Dennis B. Higgins
 Daniel G. Hinden
 Lauren Hoffman's friend
 Tristram C. Hogben
 Terry J. Holley
 Christopher C. Holmes
 Corinne H. Holt
 Dr. Philip S. Holzman
 Marc Hopkinson
 Colleen M. Horn
 George C.B. Hosley
 Doug Houpt
 Mark Hsiao
 Lucy Hu
 Rennie E. Hughes
 William "Billy" W. Humphrey
 Alan N. Hundert
 Helen Hungate-Spencer
 Darrell K. Hutchins
 David R. Hutchison
 Joseph Iacono
 Karen J. Imbler
 Roganne Imes
 Cameron S. Ingram
 George Ishikawa
 J.D.
 Prem Jajoo
 Sabrina I. James
 Lynn Jamgochian
 Patricia A. Jefferson's Auntie
 and all others
 Jill
 Sarah Jimenez del Gil de Lamadrid
 Ryan Jobe
 Hannah Johnson
 Jeremy T. Johnson
 Justin Johnson
 Michael D. Johnson
 Paul D. Johnson
 Ryan P. Johnson
 Susan J. Johnson
 Ashley "A.J." O. Jones
 Brian Jones
 David A. Jones
 Dillon Jones
 Tara L. Jones-Smith
 Kim Jong-hyun
 Shubhangi Joshi
 Jill Joyer
 Charles Judge
 Rita J. Kabban
 Andreas "Dre" P. Kahan

Amy Kalieta
 Robert J. Kannenberg
 Steven Karp
 Amy Katz's cousin
 Walter S. Katz
 Claude R. Kaufman
 Judith Kaufman
 Lisa Kaufman
 Nicholas "Nick" R. Kay
 Cheryl Keay
 Elliott Keith
 William G. Kelly III
 Michael "Misha" B. Kendis
 Michael F. Kenigsberg
 Erin E. Kerodus Dickman
 Isaac Kessler
 Sarah Ketchum-Bradley
 Edward M. Kevish
 Rashidul H. Khan-Shiply
 David T. Kidwell, M.D.
 John S. Kim, M.D.
 Robert Kinn
 Jill A. Kirby
 Mariann Klepper
 George "Fred" Klose, Jr.
 Leonard "Lenny" M. Knorr
 Michael Knutson
 Donna Koch
 Michael Kocmond
 Allison Kohl
 Peter C. Kohn
 Arty Kononchik
 Bill Korpela
 Diane A. Koskinas
 Bernard Krall
 John B. Kramer, Jr.
 Mitch Kramer
 Alan Kravitz
 Leo Kravitz
 Dr. Edwin G. Krebs
 Virginia "Deedy" F. Krebs
 John Kruger
 Michael J. Kruger
 Robert Kruger
 Kendal "Ken" A. Kucera
 Ratna K. Kudravalli
 Marcia Kuder
 Joseph "Jack" J. Kujawa II
 Francis P. Kulp
 Dr. Michael Kush
 Rabbi Moshe Kushner
 Elizabeth Lackey
 F. Danby Lackey
 Victor M. LaFata
 Allan H. Lambert
 Deborah L. Lancaster
 Melissa A. Lanier
 Danny "Dieudonne" O. LaPierre
 Carole Jean Laping

Jenna R. Laubach
 Brendan L. Lauderdale
 Robert E. Lauer
 Diana Lauren
 Jay Lauters
 Justin LaVenter
 Thomas K. Lawrence
 Michael P. Leonard
 Nicholas "Nick" M. Lesniak
 William Lester
 Michael S. Levine
 Michael Lewin
 Amy Libby's friend
 Mary Libby
 Jacob Lichtenstein
 Hesh Lieb ben Yeshayahu
 Constance E. Lieber
 Sally Lindberg
 Jonathan "Johnny" Bart Lindenberg
 Hans K. Lindgren
 Lina Litinskaya-Weinbaum
 Richard E. Little
 Lauren G. Liu
 Xiao H. Liu
 Tyler Livas
 Margaret Lively
 Amanda "Manda" Lloyd-Lumsden, DVM
 Bettie Lobato
 John "Jack" S. Logue II
 Mark E. London
 Mary L. London
 Sarah Longyear
 Danielle M. Lorenz
 Victor G. Lottmann
 Alan Lowry's daughter
 Christopher Ludwig
 James M. Luerich
 Matthew "Matt" M. Lugo
 Michael D. Luketic
 Gary A. Lund
 William C. Lund
 Helene Lundak
 Donna E. Lundeen
 June Lutticken
 Barbara Lyons
 Matthew C. Lyons
 Katherine "Kay" MacDonald
 Noel A. Machado
 Michele Macintire's Uncle Tommy
 Robert "Robbie" P. Macioce
 Ronald E. MacKenzie
 Marissa N. MacLaughlin
 Laura A. Madl
 Ellen M. Madulka
 Vincent "Vince" V. Magi
 Gordon H. Maginnis II
 Michelle M. Magnuson
 Peggy Maguire
 Dr. Thomas J. Maher, Jr.

Patricia "Trish" Mahoney-Milburn
 Roman Makuch
 Jane Malinoff
 Eugene "Joe" J. Malsan
 Bernice T. Malta
 Dr. Michael D. Mandel
 Merrill M. Manning III
 Eunice Marangiello
 Sylvia Marcus
 Kathleen A. Marnock
 Adam Marron
 Emma Marsee
 Maureen Marshall
 Jane M. Martin
 Nicolás Martinez
 Elizabeth Martino
 Kyle Martin-Patterson
 David J. Martorano
 Jesse J. Mascarenas-Herren
 Juliana Maslov
 Tracey S. Masters
 Sajana Mathai
 Tanya Matsuda
 Brendon Matsuura
 Michael D. Mattoon
 Thomas Matye
 Travis Matye
 Michael McAdam
 Tyler D. McArthur
 Megan McBride's brother
 Timothy P. McBride
 Vicki L. McCann's Cousins:
 Scott, Karen, Myrtle and B.J.
 John G. McCarthy
 Shea P. McCarthy
 Sharlene McCaslin's daughter
 David P. McCauley-Frankel
 Michael P. McClain
 Skye McCole-Bartusiak
 Nicole McDermott
 Patrick J. McGinty
 Paul McGinty
 Brian McGlinn
 Myra J. McGoldrick
 Marjorie A. McHarg
 Bruce McKay
 John R. McLain, D.C.
 James "Jamie" M. McLean
 Kelly M. McMahan
 Kevin McNeley
 Edward Mendiola
 Nick Mercon
 Tara Meredith-Welch
 Julie Meshel
 Jill Messick
 Dan Meyer
 David Meyer
 Jacob W. Meyer
 Elisabeth Z. Meyers

Michael
 Daniel Michaels
 Apphia Michelich
 Ronald Michelich
 Christopher F. Miehlich
 Mike
 Bill Milchak
 Charles W. Miles, Jr.
 Constance Miller's beloved son
 Lori Miller-Levine
 Patricia E. Mills
 Helen Milukas
 Charles Minerly
 Maureen Minerly
 George W. Mingo, Jr.
 Samuel H. Mintz-Straus
 Kyle J. Mitchell
 Linda Mitchell
 Gilbert C. Molyneux
 LeAnn Monaghan
 Gregory A. Monk
 Raymond J. Monnot
 Juan "Joji" Maniquis Montelibano
 Jeffrey D. Moon
 Irene Moran
 Jonathan "Jake" J. Moran
 Sean M. Morgan, Jr.
 Florence A. Morgan-Bickel
 Laura F. Morlan
 Rosa Morreale
 Chris Morrow
 Harold "Hank" Mortimer
 Hughes G. Morton
 Ellen Mosher
 Rick Mosher
 Lee Moskow
 Richard D. Moszkowski
 Virginia "Ginny" L. Mott
 Patrick R. Muldoon
 Andrew "Andy" L. Munson
 Wyatt L. Murchison
 Donna E. Murphy
 Monica Murphy
 Susan Murphy
 Lynn Murray
 Kenneth F. Mutch
 John Myers
 Cassandra Narburgh
 Rolando J. Navarrete
 Linda Needham
 Connor D. Neely
 Barry J. Nelson
 Joel Nelson
 Yvonne L. Nevanen
 Hanna Nevins
 Marvin E. "Bob" Nevins
 Meryle Newbold-Simon
 John W. Ng
 Jeffrey Wen Fong Ng Wu

Emma "Emmie" Kajsa Marie Nicholas
 Vincent S. Nicolai
 Amanda D. Nolan
 Ronald A. Noll
 Mary Pat Nugent
 David Oakley
 Tanya A. Ojala
 Rachel L. Okon
 Aaron D. Olander
 Carlo Olandese
 Robert C. Olivarez
 Kerry E. Shreve Olivier
 Seth Olsen
 Kelly O'Malley-Coogan
 Frances O'Neill
 James O'Neill
 Jahseh Onfroy (XXXTentacion)
 Cameron R. Orr
 Todd W. Orton
 Avery Osborne
 Charlotte M. Otero
 Dr. Winfred Overholser, Jr.
 Kyle A. Pace
 Kim Paek
 Arthur Paley
 Angela N. Palma
 Elizabeth Palmieri
 Josiah E. Parker III
 Sureka Parmar
 Michael "Mike" R. Paskov
 Pete Pasquale
 Richard "Nick" N. Passarella
 Gavin Patrick's friend
 Marketa E. Patterson
 Logan Pauk
 Betty J. Paykel
 Dr. Arthur Peck
 Audrey Pedersen
 Holly Pedersen
 Jennifer T. Peeters-Vest
 Norman "Bunny" R. Pelletier, Jr.
 Samantha "Sam" Saint Aubyn
 Peluso-Swartzlander
 Kathryn M. Pendleton
 David J. Persik
 Gregory S. Persik
 Seymour Pestronk
 Peter
 Colt T. Peterson
 Sue Peterson
 George P. Phear
 Thomas A. Phelps
 Bill Phillips
 Lynn Phillips
 Parker E. Philips II
 C. Robert Ploger
 Trudy Pollock
 Michael "Mike" J. Pomerleau
 Jillian Pondell

Isaac J. Presser
 Chrysa L. Prestia-Gulati
 Rosemarie T. Princiotta
 Casey P. Prizzi
 Mary Pat Pryor
 Peppino Puleo
 Rehmat A. Qadir
 Angela Quarles-Cottle
 Dylan Quast
 Ramez E. Qureshi
 Jesse M. Rabinowitz
 Matthew R. Radula
 Sidharth Ramakrishnan
 Anthony F. Rankin
 Douglas D. Ranney
 Anna E. Rapley-Stephens
 Daniel J. Ravner
 Cassandra "Cassie" N. Ray
 Raymond Rando
 Anthony M. Razziano
 Michael Reaney
 John Reason
 Brian E. Reese
 Veronica "Ronnie" A. Regan-Burkert
 Jane L. Reicher
 Leslie A. Reichert
 Steve Reichter's sister, Susan
 Laurel H. Reid
 Sheldon M. Rein
 Onofrio A. Rella
 Susan Renda
 Michael Reschke
 Sheldon Ressler
 James D. Reynard, M.D.
 Dorothy A. Reynolds
 Evelyn A. (Paulino) Reznak
 Reginald "Reg" J. Rhodes
 John J. Rice, M.D.
 Laura A. Rice
 Gail Richards
 Tracy Alan Richards
 William L. Ricketts
 Priscilla Riddick-Trotter
 Pearl L. Rinkoff
 Vincent Rios
 Gertrud Robbins
 Florinette "Little Flower" Roberge Schon
 Jacob "Jake" A. Roberson
 Sara E. Roberts
 Jay D. Robinson
 Elisa A. Robinson-McElroy
 Devin Robledo
 Mr. Rogers
 Dora M. Roller
 Charlie Romney
 Brian Rorick
 Tommy Rorick
 Mort Rosen
 Karina Rosenbaum

Betty Rosenberg
 Robert Rosenberg
 Chris Ross
 Mitchell S. Ross
 Christina Rossi
 Janet Rossi
 Ann Roth (Mrs. Donald I. Roth)
 Joan Roth
 Lewis Roth
 Essie Rothman
 Estelle Rothman
 Matthew S. Rothman
 Aaron B. Roush, M.D.
 Joan Rowe
 Derek Rowley
 Meredith E. Roy
 S. Alexander Royden
 Marc Ruben
 Sarah A. Rudnick
 Philip R. Ruggiero
 Ian M. Ruggles
 Donald J. Rully
 Linda Sacks
 Candace Salvo
 Pasquale Salvo
 Carol Sanchez
 August Sancis
 Mason C. Sanders
 Carla Santamaria
 Lourdes M. Santos
 Elijah L. Sarantakos
 Melissa L. Saunders
 Donald Savage
 Linda Schamp
 Trent Scharf
 Father Jack L. Schauble
 Terry Scheffler
 Susan Schick-Berlin
 Lee R. Schoolmeesters
 Richard B. Schreiber
 Sarah "Sally" Strain Schryver
 Dorothy E. Schultzbank
 Edna Schwanebeck
 Theodore "Teddy" Schwarting
 Michael L. Schwartz
 Sherri Schwartz
 David J. Scott
 David L. Seaquist
 Rich Searle
 Laurie Seeds's brother
 Michael Seeds
 Briston J. Seagraves
 Brian C. Seidenberg
 Paz Selo
 Werner A. Selo
 Gary S. Sevitsky
 Karen Seykora
 Kelsey Shane
 Richard Shannon

William Shannon
 Joanne "Jo" J. Sharp-Ryden
 Aaron Sheafor's friend
 Margaret A. Sherman
 Charlene Sherman-Bry
 Alice Sherr
 Saul Sherr
 Harriet Shetler
 Christine J. Shibley
 Sylvia Shick
 Bishara Shofani
 Brandi Shook-Odum
 Andrea Siegel
 Chris Sihner
 Beatrice M. Silla
 Leonard R. Sillman
 Lucas R. Silvasi
 Benjamin L. Silver
 Sheldon Silverman
 Kevin Simms
 Alice B. Simon
 Gerry Simon
 Ken Simon
 Tracy Simoneau's Little Brother
 David B. Simpson
 Jeff Singer
 Christian T. Skaftun
 Oscar Skelton
 Toni M. Skifstad
 Benjamin E. Smith
 Carol R. Smith
 Edmund Smith
 Edward J. Smith
 Gregg R. Smith
 Pastor Robert E. Smith
 Samuel "Sam" T. Smith
 Daniel P. Snyder
 Lauren Snyder's father
 Frank Sonneborn
 Susan K. Soyka
 Timothy Spada
 Kate Spade
 Katie Spiers
 Arthur Spingarn
 Jeffrey T. Sramek
 Ronald W. Staab
 Michael "Bill" Stafford
 Ian J. Stancato
 Brian A. Stapleton
 John A. Stapleton
 Justin Starr-Imperatore
 Ann Stehle
 Robert A. Stein
 Marilyn "Margo" D. (Coris) Steinfeld
 Kolne M. Stella
 Anita B. Stevens
 Leanne Stock
 Kevin T. Stoddard
 Gloria G. Stone

William J. Stone
 Mary J. Strub-Caulkins
 Kenneth E. Stutzman
 Channalingiah Sudhakara
 Julia "Gia" A. Suhajda
 Dr. Edward Sukoff
 Joan C. Sullivan
 Stephanie D. Sullivan
 Bob Summers
 Jeffrey Sussman
 Brandon Sutka
 Dwain Sutton
 Denise E. Swap
 Celestia M. Syfert
 Ervin Syfert
 Ernest Szeto
 Martin P. Szuba, M.D.
 Andrew Taddy
 John Talley
 Shobhit Taneja
 H. Vonn Taylor
 Veda N. Taylor-Pelham
 Gerald P. Tchir
 Carole M. Teague
 Shawn C. Temple
 Jason Tennies
 Dolores Terrazas-Clark
 Rocky Terrell
 Amber Thaler
 Mary N. Thawley
 Shannon R. Theeck
 Jacob "Jake" A. Thomas
 Brian Thomesen
 Camilla "Cammie" L. Thompson
 Geoffrey Thompson
 The lives lost at the Bordeline Bar and Grill in Thousand Oaks (11/8/2018)
 Nicholas Tindall
 Claire L. Tobin
 Dr. Richard D. Todd
 Gordon Tomalty
 Kathee Tomlinson's love one
 Kolton Tomlinson
 Rosemary F. Torgesen
 Juan G. Torres
 Edgar R. Tostevin
 James Towers
 Leanne Townsend
 David L. Trachtman, LCSW
 Dr. Eugene Trachtman
 Daniel B. Travis
 Raymond M. Triebold
 Camryn "Cam" C. Tripp
 Richard Trommer
 Paul A. Truman
 Donald Trybula
 Alexandros Tsaoussis-Maddock
 Rachel Tso
 Amanda Tucci

Kimberly Turner-Wilhelm
 Tyler
 David M. Unger
 Joey Upchurch
 Chan S. Valentine
 Ryan van der Most
 Police Sergeant Alexander Vazquez
 Lola Mae Verdun
 Emily Vergo's brother
 John M. Vergo
 Helen G. Verrey
 Allen E. Vincent
 Keith A. Vinskofski
 Gregory Von Burg
 Paul Von Burg
 Ken Vorisek
 Bruce K. Waite
 Robert Wallace
 Don Walsh
 Christina Walters's friend
 Jeremy Walters
 Elaine Wane
 Howard N. Wane
 Justin Z. Wang
 Edith Ward
 Michael F. Ward
 Donna Watson
 Merle Watson
 Sherri E. Webb
 Norman Wegweiser
 Daniel Weig
 Irving Weinflash
 Nathan Weinflash
 Susie Weinflash
 Jacob Weitzman
 James C. Welbourne
 Ann Welch
 Ben and Laura Welch's daughter
 James C. Welch
 Mark P. Wendling
 Thomas J. Wendt
 Jennifer N. Wenz
 Susan L. Wessman
 Allie West's friend
 Robert Wetzal
 Timothy L. Whitmer
 Eamonn D. Wholley
 Dr. James Wicoff
 John A. Wiederkehr II
 Michael G. Wieman
 Bobbye C. Wiggins
 Ruby N. Wiggins
 Ronna D. Wilbert
 Aaron Wilcox
 Henry "Hank" M. Wile
 Brekhus A. Williams
 Robin Williams
 Laurie Williams-Wheeler's son
 Katelyn A. Willmonton

Margaret Wills
 Edwin "Eddie" L. Wilson III
 Richard K. Wilson
 Timo Wilson
 Stuart J. Winston
 David Winter
 Douglas Wistner
 Christopher Wittman
 Clare Ellen (Costello) Wojtusik
 Eldon A. Wolf
 Cheryl E. Wolfe
 June Wolfe
 Troy Wolfe
 Farrell J. Wolfson
 King Chu Wong
 Charles R. Wood
 Geoffrey D. Wood
 Kenneth A. Wood
 Rachel A. Wood
 Alan H. Woodard
 Carolyn Woods
 Bernard Wortman, Ph.D.
 Andrew Wyberanec
 Todd Yancey
 Ji Lei Yang
 Michael Yelenosky
 Charlotte Young
 Josh Young
 Susan M. Zach
 Neal Zafran
 Leah Zaroni
 Zachary V. Zarr
 Peter W. Zartman
 Andrew W. Zeh
 Maria Zeier
 Edward N. Ziegler
 Gladys P. Ziegler
 Barry L. Zimmerman
 Stan Ziubrzynski
 Dominic J. Zockle
 Aaron W. Zundel

Team Up for Research

\$100,000+

BEHAVIOUR INTERACTIVE INC.
Internet Campaign

FACEBOOK FUNDRAISING
Internet Campaign

THEORIST, INC. / YOUTUBE
Stephanie & Matthew Patrick
Internet Campaign

\$25,000+

**8TH ANNUAL LET THE SUN SHINE
RUN/WALK**
Kathy & Curt Robbins
Cold Spring, MN

HIKE FOR MENTAL HEALTH
Leo Walker & Tom Kennedy
Houston, TX

\$10,000+

CHRISSY'S WISH
Linda & Mario Rossi
Dix Hills, NY

MICHAEL MATTOON GOLF OUTING
Kathleen Mattoon
Gilberts, IL

\$5,000+

BEN'S MEMORIAL MILE
Paul Silver
Downers Grove, IL

DAVE'S GIG
Ludington, MI

GIBI ASMR
Internet Campaign

GRAVITY BLANKETS
Michael Grillo
Brooklyn, NY

HORIZON GROUP PROPERTIES
Gary Skoien & Connie Dyer
Rosemont, IL

IMMORTAL CHOKE
Billy Hong
Reno, NV

IRONMAN FOR MENTAL ILLNESS
Adrian Hunter
Kohala Coast, HI

NAMI – EASTSIDE SUPPORT GROUP
Dr. Tom B. Coles
Gross Pointe Woods, MI

**TEAM DANIEL: RUNNING FOR
RECOVERY FROM MENTAL ILLNESS**
Drs. Ann & Robert Laitman
Port Washington, NY

Z100 – WORLD MENTAL HEALTH DAY
New York, NY

\$1,000+

A LITTLE SPARK – POOL PARTY & BBQ!
Jim Schuchart
Saugus, MA

APRIL'S 30TH BIRTHDAY FUNDRAISER
April Stec
Cazenovia, NY

ANGELL OPEN TENNIS TOURNAMENT
Gail & Chip Angell
Brooklin, ME

APPALACHIAN TRAIL HIKE 2018
Chip Dennison
Eastern USA

**ART & BARS FOR MENTAL HEALTH
AWARENESS**
Alex Qian
Chicago, IL

BASK-ROBERTS WEDDING
Andrea Louise Barsk & Sean
Roberts
New York, NY

BREAKNECK HOODIES
Charlotte Coplon
Santa Monica, CA

BRYAN WALKS USA
Bryan Jacobsen
Everett, WA

DEDHAM CASUAL DAY
Dedham Institution for Savings
Dedham, MA

DENALI-CLIMBING FOR MENTAL HEALTH
Adam Horecki
Denali Park, AK

DAVE GREEN MEMORIAL GOLF CLASSIC
John Hagerty
Glen Dale, MD

**EDEL-FRIENDS SUPPORT MENTAL
ILLNESS RESEARCH**
Claire Fontana
San Rafael, CA

**DELILAH ELLENBERG FIGHTS FOR
A CURE**
Delilah Ellenberg
Little Neck, NY

**GAMING MAMMOTH AND THE ARMY
OF TOY SOLDIERS**
Jeroen Cools
Internet Campaign

JORD, INC.
St. Louis, MO

LEWIN-SHEAR WEDDING
Sarah Lewin & Matthew Shear
New York, NY

MAKEANEFFORT: 2018 NYC MARATHON
John Marangiello
Morganville, NJ

MATCH ME CODY
Cody Walter
Internet Campaign

**OMGITSJAYPEE AND FRANDLE'S 24
HOUR CHARITY STREAM**
Jean Phillips
Internet Campaign

ONEGUNN ONE LOVE TRIBUTE
Wendy Cannon-Gunn
Phoenix, AZ

OVERWATCH TOURNAMENT
Christi Nakajima
Internet Campaign

REEBOK RAGNAR RUN FOR RESEARCH
Mandy Skinner
Adirondacks, NY

RPG CROSSING FUNDRAISER
Mark Englehardt
Ottawa, Canada

SAN FRANCISCO MARATHON
Kamal Patel
San Francisco, CA

TRADEREV CHARITY CHALLENGE
TradeRev.com
Toronto, Canada

**SGT. ALEXANDER VAZQUEZ
MEMORIAL MARATHON**
Basheer Jaludi
New York, NY

\$500+

**12TH ANNUAL MARCH COMEDY
MADNESS**
Josh Filipowski
Somerville, MA

BBRF HOLIDAY FUNDRAISER
Claire Handville
Hoboken, NJ

**CHATHAM UNIVERSITY – PA
CLASS OF 2019**
Pittsburgh, PA

DREAM CLOTHING
Sammy Sucu
Porter Ranch, CA

DRUM AGAINST DEPRESSION
Kevin M. Lois
Corpus Christi, TX

GREENBAUM DENIM DAY
Greenbaum, Rowe, Smith &
Davis LLP
Iselin, NJ

HAPPINESS 2 OTHERS
Arpit Jain
Pasadena, CA

IAN RUGGLES MEMORIAL RACE
Joe Ruggles
Springfield, OH

LEAVE A LEGACY
Chris Marshall
Staten Island, NY

MILTON GIVING DAY
Milton Academy
Milton, MA

OPERATION GIVING 2018
Tyler Couey
Anchorage, AK

RAMONE'S ICE CREAM PARLOR
Eau Claire, WI

SABOL FAMILY CHRISTMAS
Angie & Ron Sabol
Peninsula, OH

SUE-LAURIE WEDDING
Susan Almeida & Katharine
Lawrence Victor
Scottsdale, AZ

“Established over three decades ago, the BBRF is a contemporary non-profit organization run by true mental health professionals. Their commitment to donating 100% of funds to game-changing research, coupled with their approachable and altruistic team made them the ideal partner for a brand like Gravity.”

Mike Grillo
CEO, Gravity Products

Getting the Word Out

Connecting on Social Media

The Brain & Behavior Research Foundation maintains a strong social media presence in order to communicate and engage with all of our constituents and group members.

 **365k+**
FACEBOOK LIKES

 **6.5k+**
TWITTER FOLLOWERS

 **400+**
YOUTUBE VIDEOS
418K+ VIDEO VIEWS
2.8M+ MINUTES WATCHED

 **BBRF Website
in 2018**

- 1.6M PAGES VIEWED
- 745K UNIQUE VISITORS
- 500K+ VISITORS BROWSED RESEARCH ARTICLES

Brain & Behavior Research Foundation In the News

April 2018

BRIT & CO

‘Mariah Carey’s Bipolar Disclosure Sheds Light on a Misunderstood Mental Illness’

June 2018

TODAY.COM

‘Anthony Bourdain’s Suicide Puts Spotlight on Men’s Mental Health’

‘6 Symptoms of Depression You Should Never Ignore’

HEALTH DAY

‘Women More Prone to Anxiety Than Men, Review Finds’

THE NEW YORKER

‘Anthony Bourdain, Kate Spade, and the Preventable Tragedies of Suicide’

July 2018

INSIDE PHILANTHROPY

‘Focused and Strategic: How a Family Tapped Wall Street Wealth for Impact on Mental Health’

October 2018

BRAIN WORLD MAGAZINE

Interview with Dr. Jeffrey Borenstein

BBRF MULTIMEDIA PROGRAMMING



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

Healthy Minds, now in its fifth season, aims to remove the stigma of mental illness and demonstrate that with help, there is hope.

The series, nominated for a 2018 Emmy® Award for best Public/Current/Community Affairs: Series, shows common psychiatric conditions through inspiring personal stories, as well as, experts sharing cutting-edge information, including new approaches and next-generation therapies in diagnostics, treatment and research. Season 5 examined some of the most pressing public health issues including the opioid epidemic, traumatic brain injuries and concussions, and the rising rate of anxiety and other mental health issues affecting our youth. Episodes include:

- **Youth and Mental Wellness: Lady Gaga's Born This Way Foundation**
- **New Treatments for Youth Anxiety (Part 1)**
- **New Treatments for Youth Anxiety (Part 2)**
- **Opioid Epidemic: What Every Family Needs To Know**
- **Concussion: How To Protect Your Brain**
- **Living with Bipolar Disorder**
- **Schizophrenia: New Approaches to Recovery**
- **Obsessive-Compulsive Disorder**
- **Technology and Mental Health**
- **Post-Partum Depression**
- **Research and Evidence Based Treatment**
- **Youth and Mental Health — Early Intervention**
- **Refractory Depression**
- **Managing Stress**
- **Brain Science and Art**

Season 5 is available for viewing on the BBRF website. bbrf.org/healthyminds

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 monthly webinar includes time for researchers to answer questions posed by members of the online audience.

January 9, 2018
The Social Brain in Anorexia Nervosa
Carrie J. McAdams, M.D., Ph.D.

February 13, 2018
Psychotic Disorders: Current Concepts and Therapeutics
William T. Carpenter, Jr., M.D.

March 13, 2018
Quantifying Difficulties in Social Interaction in Borderline Personality Disorder
Sarah Kathryn Fineberg, M.D., Ph.D.

April 10, 2018
What's New with TMS for Depression and Other Brain Diseases
Mark S. George, M.D.

May 8, 2018
Genomics Across Diagnostic Boundaries to Improve Precision Medicine in Psychiatry
Stephan Ripke, M.D., Ph.D.

June 12, 2018
Ketamine: Why Now? How? Where Do We Go from Here?
John H. Krystal, M.D.

July 10, 2018
Rare Misspellings of the Genome, Dopamine Mishandling, and ADHD
Randy D. Blakely, Ph.D.

August 14, 2018
Lifting the Veil on Neurons that Assign Good or Bad Associations to our Environment
Kay M. Tye, Ph.D.

September 18, 2018
Bright Light Therapy for Mood Disorders including Bipolar Depression
Dorothy K.Y. Sit, M.D.

October 9, 2018
Nicotine Receptors in the Brain: Implications for Addiction and Depression
Marina R. Picciotto, Ph.D.

November 13, 2018
Pathways to New Treatments in Autism Spectrum Disorder
Jeremy M. Veenstra-VanderWeele, M.D.

December 4, 2018
Neuroimaging Inflammation in Clinical Depression and Obsessive Compulsive Disorder
Jeffrey Meyer, M.D., Ph.D.

2018 webinar episodes are available for viewing on the BBRF website. bbrf.org/webinar

PLAN YOUR FUTURE, SHAPE YOUR LEGACY

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

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

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



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

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

—Ken Harrison, Board Member

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

2018 Financial Summary*

Combined Statement of Financial Position

	DECEMBER 31, 2018
ASSETS	
Cash and cash equivalents	\$5,850,675
Investments, at fair value	14,957,266
Contributions receivable	708,183
Pledges receivable, current portion	2,010,000
Prepaid expenses and other assets	89,123
Total Current Assets	23,615,247
Assets held in charitable remainder trusts	1,287,823
Fixed assets, net	38,546
Pledges receivable, net-less current portion	3,817,651
Security deposits	262
Total Assets	\$28,759,529
LIABILITIES AND NET ASSETS	
Liabilities	
Accounts payable and accrued expenses	\$60,639
Grants payable	19,863,771
Accrued compensation	102,095
Annuities payable	680,513
Charitable gift annuities payable	181,616
Total Liabilities	20,888,634
Net Assets	
Net assets without donor restrictions	2,957,395
Net assets with donor restrictions	4,913,500
Total Net Assets	7,870,895
Total Liabilities and Net Assets	\$28,759,529

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

Combined Statement of Activities

	YEAR ENDED DECEMBER 31, 2018
SUPPORT AND REVENUE	
Contributions	\$15,556,817
Special events, net	381,244
Contribution of services	1,908,417
Bequests	2,330,941
Net realized and unrealized losses on investments	(450,793)
Net depreciation of assets held in charitable remainder trusts	(178,707)
Dividend and interest income	280,034
Total Support and Revenue	19,827,953
EXPENSES	
Program Services	
Research grants and awards	14,052,583
Scientific advancement	1,986,729
Program support	2,530,355
Total Program Services	18,569,667
Supporting Services	
Fundraising**	908,528
Administration**	1,758,414
Total Supporting Services	2,666,942
Total Expenses	21,236,609
Change in Net Assets	(1,408,656)
Net Assets, beginning of year	9,279,551
Net Assets, end of year	\$7,870,895

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

RESEARCH FOR RECOVERY



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



Our 60,000 donors have joined together in the great challenge of modern medical science — overcoming mental illness.



Since 1987 the Foundation has awarded more than \$394 million to fund more than 5,700 grants.



Grants have been given to more than 4,700 leading scientists around the world.

100% OF EVERY DOLLAR
DONATED FOR RESEARCH
GOES TO RESEARCH



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