

BRAIN & BEHAVIOR RESEARCH FOUNDATION

2020 ANNUAL REPORT

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

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

Mission

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

Vision

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

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What We Support

BBRF funds research in the following areas: Addiction, ADHD, Anxiety, Autism, Bipolar Disorder, Borderline Personality Disorder, Depression, Eating Disorders, OCD, PTSD, Schizophrenia, and Suicide Prevention.

Our Scientific Council

The high quality of the research we fund is made possible by the BBRF Scientific Council. This group of 183 prominent mental health researchers, led by Dr. Herbert Pardes, reviews each grant application and selects the most promising ideas with the greatest potential to lead to breakthroughs. The Scientific Council guides the Foundation to fund creative and impactful basic, translational, and clinical research relevant to the whole spectrum of mental health.

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

Jeffrey Borenstein, M.D.
BBRF President & CEO

100% OF EVERY DOLLAR DONATED FOR RESEARCH GOES TO RESEARCH
Our operating expenses are covered by separate foundation grants.

Research for Recovery



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



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



Since 1987 the Foundation has awarded more than \$418 million to fund more than 6,000 grants.



Grants have been given to more than 5,000 leading scientists around the world.



Jeffrey Borenstein, M.D.
President & CEO



Herbert Pardes, M.D.
President, Scientific Council



Geoffrey Simon
Chair, Board of Directors

The COVID-19 pandemic has touched all our lives—especially people with psychiatric conditions. They've had significantly higher rates of COVID-19 infection and worse outcomes.

According to the Centers for Disease Control and Prevention (CDC), the number of adults experiencing depression and anxiety has quadrupled in the past year. The long-term effects of COVID-19 on the brain are just starting to come to light. Particularly troubling is evidence that there may be mild—but very real—brain damage that occurs in many survivors. This is leading to cognitive, behavioral, and psychological problems.

One of the bright spots in a very difficult year is scientific research. It was research and development that brought us the vaccines now combating the COVID-19 pandemic. The ability of research scientists to create and bring multiple vaccines to market within months, not years, underscores the real power of scientific research, built on years of diligent work by scientists around the world.

Although research scientists have developed vaccines and therapies to control the pandemic, they haven't found instant solutions to the mental health and behavioral problems that are on the rise, particularly post-pandemic. For that we still need research—now more than ever.

The Brain & Behavior Research Foundation (BBRF) is funding that research. BBRF supports brain research from the very beginning of a research scientist's career, from his or her first novel idea. Our Young Investigator grants provide the seed funding young researchers need to pursue their hypotheses, concepts, and strategies that our independent Scientific Council believe have the

greatest chance of advancing the field and paving the way for better treatments, cures, and methods of prevention.

BBRF is a collaboration—between generous donors and dedicated scientists—and the research we fund together has been innovative, visionary, and transformative.

To date, BBRF has provided more than \$418 million in research grants to more than 5,000 scientists around the world. We are proud to report that in 2020 BBRF funded more than \$18 million in research grants across a broad spectrum of brain illnesses including: Addiction, ADHD, Anxiety, Autism, Bipolar Disorder, Borderline Personality Disorder, Depression, Eating Disorders, OCD, Psychosis, PTSD, Schizophrenia, as well as Suicide Prevention.

One reason that research funded by BBRF has such great impact is because we do not limit our focus to one illness or condition. Another reason is because **100% of every dollar donated for research is invested in our research grants.** We can do this because our operating expenses are covered by separate foundation grants. This means that when you donate a dollar for research that dollar goes directly to the scientist.

BBRF grantees are chosen by our world-renowned Scientific Council. Led by Dr. Herbert Pardes, the Council is comprised of 183 scientists who rigorously evaluate every grant application, identifying the most promising, high-quality science. Research proposals are submitted from around the world. The Council carefully selects those with the greatest potential for significant breakthroughs. This past year the Council evaluated more than 1,000 grant proposals and awarded 150 Young Investigator two-year research grants for \$35,000 per year.

Over the past 30+ years, BBRF grants have been the springboard for young scientists to get new ideas off the ground, create improved treatments and new methods of prevention. This crucial funding generates preliminary data that often leads to additional funding from the National Institutes of Health (NIH). BBRF grantees usually then go on to receive sustained grant support from other sources (both federal and private) that on average has equaled 10 times the original research grant amount. This “multiplier effect” is a vital part of what makes BBRF the largest private funder of mental health research grants.

BBRF research is playing a vital role in some of the most important advances impacting people with mental illness and their families right now. These include: Rapid-acting antidepressants; Non-invasive brain stimulation to treat depression, OCD and PTSD; Computer-guided cognitive remediation for enhanced recovery in schizophrenia; and potentially lowering a child’s mental illness risk via maternal choline supplements. These are transformative developments that brain science has achieved over the past 20 years.

Many significant BBRF-funded research results were published in papers in leading psychiatric and medical journals during 2020. This annual report features our “Top 10” Leading Research Achievements by BBRF grantees, prizewinners & Scientific Council members in the past year. This illustrates a cross-section of the remarkable progress being made by investigators we have funded. These important advancements, as well as other scientific discoveries, reflect how BBRF helps people who live with mental illness.

This year BBRF awarded its Outstanding Achievement Prizes in Mental Health to seven scientists for their extraordinary work in advancing psychiatric research. The Prizewinners were featured presenters at BBRF’s 2020 International Mental Health Virtual Symposium.

Our annual Pardes Humanitarian Prizewinners in Mental Health were Myrna Weisman, Ph.D. and Sir Michael Rutter, FRS, while E. Fuller Torrey, M.D., received an honorary tribute. The BBRF International Mental Health Virtual Symposium is available to watch free on-demand at www.bbrfoundation.org/event/international-mental-health-research-symposium.

Innovative
scientists. Novel
ideas. Cutting edge
research.

The Brain & Behavior Magazine continues to inform readers of the most important advancements in scientific research. This is supplemented by eNews, a weekly email newsletter that features the research of BBRF grantees, prizewinners, and Scientific Council members. Through these and other efforts, we aim to share information with you as often as possible about what is happening in the labs, and about work that is carrying new knowledge and insights from bench to bedside.

BBRF also produces the public television series, “Healthy Minds,” which is broadcast on public television stations around the nation and can be viewed online at www.bbrfoundation.org/healthy-minds-tv. The series aims to decrease stigma and prejudice by providing useful information to the public about psychiatric conditions and treatments as well as cutting-edge research advancements.

At the heart of the Brain & Behavior Research Foundation’s unprecedented success funding innovative and impactful research is collaboration. Our shared goal of a world free from debilitating mental illnesses relies first and foremost upon you, our donors—in partnership with the scientists chosen by the BBRF Scientific Council—who transform support into improved treatments, cures, and methods of prevention for our loved ones.

Working alongside the BBRF Board, Scientific Council, and our donors is an honor, and we thank you for your dedication to our mission. We continue to be inspired by the magnitude and scope of the discoveries that are being made by the scientists we fund together and appreciate your ongoing generous support.

Sincerely,



Jeffrey Borenstein, M.D.
President and CEO



Herbert Pardes, M.D.
President, Scientific Council



Geoffrey Simon
Chair, Board of Directors

BBRF Grants Are Making a Difference



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

The First Rapid-Acting Antidepressants

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

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

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

Computer-Guided Cognitive Remediation for Enhanced Recovery in Schizophrenia

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



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

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

Harnessing Stem Cell Technology to Study Autism, Schizophrenia

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

Computer-Guided Early Diagnosis of Mental Illness

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

Our New Scientific Council Members

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

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

We welcome our 10 newest members.



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

- Herbert Pardes, M.D.



NII ADDY, Ph.D.

Associate Professor of Psychiatry
Yale University School of Medicine



CHRIS COWAN, Ph.D.

Professor, Departments of Neuroscience and Psychiatry
William E. Murray SmartState Endowed Chair of Excellence in Neuroscience
Chair, Department of Neuroscience
The Medical University of South Carolina



KAFUI DZIRASA, M.D., Ph.D.

Assistant Professor, Psychiatry & Behavioral Sciences and Biomedical Engineering
Associate Professor, Neurobiology and Neurosurgery
Investigator in the Duke Institute for Brain Sciences
Duke University
2013 BBRF Sidney R. Baer, Jr. Prize for Outstanding Achievement in Schizophrenia Research



RENÉ KAHN, M.D., Ph.D.

Esther and Joseph Klingenstein Professor & Chair, Department of Psychiatry and Behavioral Health System
Icahn School of Medicine at Mount Sinai
Director, VISN 2 Mental Illness Research, Education and Clinical Center (MIRECC)
James J. Peters Veterans Affairs Medical Center

Our New Scientific Council Members (continued)



SARAH LISANBY, M.D.

Director, Division of Translational Research
National Institute of Mental Health
2010 BBRF Distinguished Investigator
2003 BBRF Independent Investigator
2001 BBRF Klerman Prize for Exceptional Clinical Research
1996 BBRF Young Investigator



CARLA MAZEFSKY, Ph.D.

Associate Professor of Psychiatry and Psychology
University of Pittsburgh Medical Center



COLLEEN MCCLUNG, M.D., Ph.D.

Professor of Psychiatry and Clinical and Translational Science
University of Pittsburgh School of Medicine
2016 BBRF Independent Investigator
2007, 2005 BBRF Young Investigator



PETER PENZES, Ph.D.

Director, Center for Autism and Neurodevelopment
Ruth and Evelyn Dunbar Professor of Psychiatry and Behavioral Sciences
Professor of Physiology, Pharmacology and Psychiatry and Behavioral Sciences
Northwestern University
2007, 2003 BBRF Young Investigator



CAROLYN RODRIGUEZ, M.D., Ph.D.

Assistant Professor, Department of Psychiatry and Behavioral Sciences
Director, Translational OCD Research Program
Stanford University School of Medicine
2014, 2009 BBRF Young Investigator



DAVID SILBERSWEIG, M.D.

Chairman, Department of Psychiatry
Co-Director, Center for the Neurosciences
Brigham and Women's Hospital
Stanley Cobb Professor of Psychiatry
Harvard Medical School
1996 BBRF Young Investigator

2020 Leading Research Achievements by Foundation Grantees, Prize Winners, & Scientific Council Members

NEXT-GENERATION THERAPIES: Anxiety Disorders

Inhibiting the Threat Response in the Presence of a “Safety” Signal



Dylan Gee, Ph.D.

Yale University

2015 BBRF Young Investigator

Proceedings of the National Academy of Sciences, December 2019

Researchers identified a neural circuit projecting from a part of the brain’s hippocampus that enables people to inhibit their response to a perceived threat in the presence of a learned “safety” signal. Targeting this circuit could lead to a new therapeutic approach to fear-related anxiety. The pathway the researchers discovered diverges from the circuitry involved in “extinction learning” which is central in cognitive behavioral therapy (CBT) often prescribed to reduce fear- and stress-related anxiety.

The research team included: **Francis Lee, M.D., Ph.D.**, BBRF Scientific Council, 2011 BBRF Independent Investigator, 2005 and 2002 Young Investigator; **Conor Liston M.D., Ph.D.**, 2013 BBRF Young Investigator.

NEXT-GENERATION THERAPIES: Addiction, Substance-Use Disorders

In 2 Trials, Ketamine Added to Behavioral Therapy Helped People with Cocaine and Alcohol Dependencies to Abstain



Frances R. Levin, M.D.

Columbia University

2000 BBRF Independent Investigator

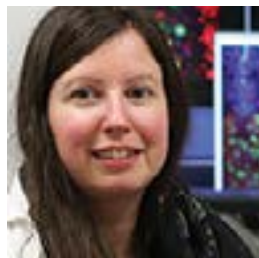
American Journal of Psychiatry, February 2020

In separate randomized clinical trials published in February 2020 and November 2019, a research team at Columbia University and the New York Psychiatric Institute reported success in combining existing forms of behavioral-modification therapy and a single infusion of the drug ketamine (at a sub-anesthetic dose) to enable people with alcohol and cocaine dependencies to maintain abstinence. In the cocaine trial, ketamine was combined with mindfulness-based behavioral training; in the alcohol trial, it was paired with motivational enhancement therapy. Ketamine provided protection against a lapse in abstinence evolving into continued use—i.e., relapse—or into a dropout from treatment. The team suggests that ketamine may affect brain biology in ways that make the behavioral therapy component more effective than when given alone, a concept to be tested in larger trials.

Dr. Levin was a senior member of the teams in both trials. The team in the cocaine trial included **Sanjay Mathew, M.D.**, 2009 BBRF Independent Investigator, 2006 and 2001 BBRF Young Investigator. Both trials were led by **Elias Dakwar, M.D.**, and **Edward Nunes, M.D.**, of Columbia University.

BASIC RESEARCH: Depression, Anxiety Disorders

Mechanism in Brain's Blood-Vessel Cells That Promotes Stress Resilience



Caroline Ménard, Ph.D.

Laval University / CERVO Brain Research Centre, Canada

2016 BBRF Young Investigator

Proceedings of the National Academy of Sciences, February 2020

Researchers discovered molecular mechanisms in blood-vessel cells that form the blood-brain barrier (BBB) which may protect the brain against stress and depression, and which might be targeted in future therapies. The BBB selectively allows certain nutrients and other essential factors in the blood to pass into brain tissue, while keeping out pathogens, pro-inflammatory immune signals and other harmful elements. Dr. Ménard's team explored mechanisms that give rise to leaks in the blood-brain barrier, promoting depression, and identified several potentially targetable immune pathways that help keep the BBB strong amid challenges like stress or inflammation.

The research team included: **Carol Tamminga, M.D.**, BBRF Scientific Council, 2011 BBRF Lieber Prize, 2010 and 1988 BBRF Distinguished Investigator; **Gustavo Turecki, M.D., Ph.D.**, 2020 BBRF Colvin Prize, 2016 BBRF Distinguished Investigator, 2008 BBRF Independent Investigator, 2000 BBRF Young Investigator; **Scott Russo, Ph.D.**, 2008 and 2006 BBRF Young Investigator; **Sam Golden, Ph.D.**, 2018 BBRF Young Investigator.

NEXT-GENERATION THERAPIES: Depression, PTSD

Discovery of a Way to Potentially Extend Ketamine's Antidepressant Effects



Chadi G. Abdallah, M.D.

Yale University / VA National Center for PTSD

2014 and 2012 BBRF Young Investigator

Neuropsychopharmacology, February 2020

Pre-treating refractory depression patients with the FDA-approved antibiotic drug rapamycin before giving them a ketamine infusion was found in a clinical trial to extend ketamine's antidepressant effects. When patients took rapamycin prior to receiving ketamine, 41% still showed a clinical antidepressant response after two weeks, with 29% in full remission. This compared with 13% response and 7% remission when placebo was given prior to ketamine instead of rapamycin. In most patients, when ketamine is given alone, its effects are robust for several days and fade after about a week. The researchers note that rapamycin is a potent suppressor of inflammation, which has often been suspected of involvement in the biology of depression. They speculate that the anti-inflammatory effects of rapamycin may protect new or restored synaptic connections between neurons in the cortex that are forged after a ketamine infusion.

The research team included: **John H. Krystal, M.D.**, BBRF Scientific Council, 2006 and 2000 BBRF Distinguished Investigator, 1997 BBRF Independent Investigator; **Gerard Sanacora, M.D., Ph.D.**, BBRF Scientific Council, 2014 BBRF Distinguished Investigator, 2007 BBRF Independent Investigator, 2001 and 1999 BBRF Young Investigator; the late **Ronald S. Duman, Ph.D.**, 2005 BBRF Distinguished Investigator, 2002 Falcone Prize, 1997 BBRF Independent Investigator and 1989 BBRF Young Investigator; **Deepak Cyril D'Souza, M.D.**, 2013 BBRF Independent Investigator; **Kyung-Heup Ahn, M.D.**, 2009 BBRF Young Investigator; **Mohini Ranqanathan, M.D.**, 2007 BBRF Young Investigator; **Lynette Averill, Ph.D.**, 2015 BBRF Young Investigator.

NEW TECHNOLOGIES, BASIC RESEARCH: Schizophrenia, Autism, Developmental Disorders

Integrating Stem-Cell Technology and CRISPR Gene Editing Makes New Insights Possible on Disruptions in Brain Development



Kristen Brennand, Ph.D.

*Icahn School of Medicine
at Mount Sinai / Yale University*

BBRF Scientific Council, 2018
BBRF Maltz Prize, 2016 BBRF
Independent Investigator,
2012 BBRF Young Investigator

Researchers harnessed the power of a gene-editing technology called CRISPR to make stem cell-based studies of psychiatric disorders much more powerful. Skin and blood cells sampled from patients can be reprogrammed to revert to a stem cell-like state and then be directed to redevelop as immature brain cells which can reveal pathologies caused by the patient's genetic variations. Using CRISPR to create "isogenic" cell lines enables researchers to distinguish the specific biological changes associated with a single "risk gene" or combinations of them, irrespective of DNA differences between cell donors. Drs. Brennand and Akbarian are pioneers in "integrating" the two technologies, thus helping to enhance the collective power of the field to explore causation and identify new treatments, especially for disorders such as schizophrenia and autism with strong genetic roots whose pathologies may begin early in brain development.



Shahram Akbarian, M.D., Ph.D.

*Icahn School of Medicine at
Mount Sinai*

BBRF Scientific Council, 2018
BBRF Lieber Prize, 2012 BBRF
Distinguished Investigator, 2000,
1995, 1993 BBRF Young Investi-
gator, 1997 BBRF Klerman Prize

*Schizophrenia Research,
March 2020*

NEXT-GENERATION THERAPIES: Depression

Remarkable Remission Rate Reported in Patients Who Received SAINT, a Non-Invasive Brain-Stimulation Treatment for Refractory Depression



Nolan Williams, M.D.

Stanford University

2019 BBRF Klerman Prize, 2018,
2016 BBRF Young Investigator

*American Journal of Psychiatry,
April 2020*

In a pilot trial involving 21 patients who had not responded to previous depression therapies, researchers employed a form of non-invasive brain stimulation treatment called iTBS (intermittent theta-burst stimulation). In this test, five times as much total stimulation was delivered over a 5-day period than currently FDA-approved depression treatments for iTBS and rTMS deliver in 6 weeks. After 5 days of treatments 90% of the participants achieved remission of their depression symptoms. One month later, 70% of patients continued to experience an antidepressant "response"—a reduction in initial symptoms of at least 50%. A larger trial is now in progress to confirm the rapid anti-depressant effects seen in the pilot trial.

The research team included **Alan Schatzberg, M.D.**, BBRF Scientific Council, 2005 BBRF Falcone Prize.

NEXT-GENERATION THERAPIES: Bipolar Disorder

Study Finds Important Changes in the Treatment of Bipolar Disorder Over 20 Years



Samuel Wilkinson, M.D.

Yale University

2016 BBRF Young Investigator

American Journal of Psychiatry,
April 2020

Based on outpatient treatment records, researchers found that compared with 20 years ago, bipolar disorder outpatients today are much more likely to be prescribed an antipsychotic and/or an antidepressant medication rather than a mood stabilizer like lithium. Second-generation antipsychotics have in large measure replaced lithium and other mood stabilizers, the team noted, in the absence of any comparative effectiveness data that would indicate superior outcomes for patients. The researchers also noted a consistent lack of evidence for the efficacy of antidepressants in outpatients with bipolar disorder. In view of the trends they identified, the team strongly recommended initiating comparative effectiveness studies for mood stabilizers vs. second-generation antipsychotics, as well as efficacy studies for antidepressants in bipolar disorder outpatients.

The research team included: **Andrew Nierenberg, M.D.**, BBRF Scientific Council, 2013 BBRF Colvin Prize, 2013 BBRF Distinguished Investigator, 2003 and 2000 BBRF Independent Investigator; **Mark Olfson, M.D.**, 2005 BBRF Distinguished Investigator.

DIAGNOSTIC TOOLS/EARLY INTERVENTION: Psychosis, Schizophrenia, Developmental Disorders

In Pregnant Women with COVID-19, Higher Choline Levels May Protect Fetal Brain Development



Robert R. Freedman, M.D.

University of Colorado Denver
School of Medicine

BBRF Scientific Council,
2015 BBRF Lieber Prize,
2006 and 1999 BBRF
Distinguished Investigator

New research suggests that having higher levels of the nutrient choline via diet or supplements may protect brain development of the fetus in pregnant women who develop COVID-19 infection by early in the 2nd trimester. When faced with an infection, the mother's body mounts an immune response, which poses a potential health risk to the fetus. The team drew upon data collected in their prior studies of women who developed bacterial and viral infections during the first 16 weeks of pregnancy—the point at which the fetus is most vulnerable to maternal inflammation. The data indicated that higher choline levels obtained through diet or supplements may protect fetal development and support early behavioral development even if the mother contracts a viral infection in early gestation when the brain is first being formed. Choline levels, they note, are most important early in pregnancy—levels beginning at 22 weeks were not observed to affect infant outcomes.

The research team included: **Amanda Law, Ph.D.**, BBRF Scientific Council, 2011 Baer Prize, 2009 BBRF Distinguished Investigator, 2006 BBRF Young Investigator; **Sharon Hunter, Ph.D.**, 2003 BBRF Young Investigator.



M. Camille Hoffman, M.D.

University of Colorado Denver
School of Medicine

2015 BBRF Baer Prize

Journal of Psychiatric Research,
May 2020

BASIC RESEARCH: Schizophrenia, Depression, Epilepsy, Alzheimer's

Researchers Discover a Role for Immune Cells Called Microglia in Inhibiting Brain Activity and Regulating Behavior



Anne Schaefer, M.D., Ph.D.

Icahn School of Medicine at Mount Sinai

2010 BBRF Young Investigator

Nature, September 2020

Researchers discovered a new way in which the brain keeps neural activation within normal bounds: immune cells specific to the brain, called microglia, sense neural activity and respond by locally inhibiting it. Failure of this mechanism may be involved in illnesses ranging from Alzheimer's and epilepsy to depression and schizophrenia. The study puts a fresh spotlight on these cells as partners of neurons in the regulation of neuronal activity and behavior. When inflammation is present, Dr. Schaefer explains, or in neurodegenerative diseases like Alzheimer's, microglia lose their ability to regulate neural activity—perhaps a factor in the pathology associated with these conditions. Since dysregulated neuronal activity is part of the pathology of an illness like Alzheimer's, it means the regulatory role played by microglia also has an impact, indirectly, on behavior—something not previously recognized.

The research team included: **Paul Kenny, Ph.D.**, 2015 BBRF Distinguished Investigator, 2004 BBRF Young Investigator; **Erin Calipari, Ph.D.**, 2018 BBRF Young Investigator; **James Surmeier, Ph.D.**, 1996 BBRF Distinguished Investigator; **Munir Gunes Kutlu, Ph.D.**, 2019 BBRF Young Investigator; **Pinar Ayata, Ph.D.**, 2016 BBRF Young Investigator.

NEXT-GENERATION THERAPIES: Bipolar Disorder

Psychotherapy in Addition to Medication Helps Bipolar Disorder Patients Avoid Relapse and Manage Their Symptoms, Study Reveals



David Miklowitz, Ph.D.

University of California, Los Angeles

2011 BBRF Colvin Prize,
2001 BBRF Distinguished
Investigator, 1987 BBRF
Young Investigator

JAMA Psychiatry, October 2020

An analysis of 39 randomized clinical trials involving 3,863 individuals diagnosed with bipolar disorder concluded that when medication is supplemented with various forms of psychotherapy, the rate of recurrence in the next 12 months declines, and symptoms are better managed. The study found that psychoeducation with “guided practice of illness management skills” was superior when delivered in a family format (i.e., patients with their caregivers) or a group format (patients with other patients) than when delivered in an individual (one-on-one) format. Patients were more likely to stick with their combined treatment regimens over a year's time when they received therapy in family or group formats, or when they received brief psychoeducation as opposed to more formalized versions of psychoeducation given individually. The team also concluded that medication combined with cognitive behavioral therapy (CBT), and with lesser certainty, family therapy or interpersonal therapy (IPT), was more effective than medication with “treatment as usual” in stabilizing depressive symptoms in patients.

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

SINCE 1987



BBRF grant recipients have gone on to receive an estimated \$4 billion in additional research funding in next-stage NIMH and NIH grants.

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

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

Research Categories

Basic Research

To understand what happens in the brain to cause mental illness

Diagnostic Tools/Early Intervention

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

New Technologies

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

Next-Generation Therapies

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

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

The BBRF's Scientific Council, which is made up of 183 preeminent mental health researchers and led by Dr. Herbert Pardes, volunteer their time to review and evaluate applications. The Scientific Council not only looks for projects with the greatest potential for immediate breakthroughs in neurobiological and psychiatric research, but also for projects which can yield additional benefits for many years to come.

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

"We are very proud that BBRF supports individuals from across a wide range of disciplines—neurologists, psychologists, sociologists, pharmacologists, biochemists—from all over the world. BBRF Grants foster a large scale, open, collaborative research effort with as many people as possible to help find better treatments and cures for mental illness."

Herbert Pardes, M.D.

President, BBRF Scientific Council

BBRF Young Investigator Grants in 2020

1,012
YOUNG
INVESTIGATOR
APPLICATIONS

150
YOUNG
INVESTIGATOR
GRANTS
AWARDED

\$10.3
MILLION AWARDED
IN YOUNG
INVESTIGATOR
GRANTS

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

Many of the new 2020 projects focus on brain biology underlying a range of psychiatric disorders—for example, imbalances between excitation and inhibition in the brain; or brain circuitry that is engaged when we form memories, including fear memories when we are exposed to threats or trauma. A number of grantees are exploring tiny changes in the way the vast human genome is densely packaged in the nucleus of each cell—changes that can alter the expression of genes thought to contribute to illnesses such as schizophrenia and autism.

Several projects seek to grasp how immune cells in the brain called glia and microglia, as well as microbes living in the human gut, may be contributing to vulnerability to mental illnesses, notably depression and stress-related disorders.

Other 2020 grantees are trying to understand the mystery behind gender differences in susceptibility to depression and anxiety disorders, as well as ADHD and autism. These are just a few highlights of the many exciting new projects that BBRF grantees will be working on. It's an exciting and very promising time in brain research that we hope will lead to improved treatments in the years to come.

Co-Chairs of the Young Investigator Grant Selection Committee



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



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

“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 was only because I received the BBRF Young Investigator grant at this time that I was able to buy the equipment to do the project I needed to do. That got me my next BBRF Young Investigator 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 BBRF Young Investigator Grant

2020 BBRF Young Investigator Grants by Illness

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

ADDICTION / SUBSTANCE-USE DISORDERS

Aaron Bornstein, Ph.D.

[IDCII](#) *Basic Research*

Suheyla Cetin Karayumak, Ph.D.

[IDCII](#) *Basic Research*

Ana Covelo, Ph.D.

[IDCII](#) *Basic Research*

Giordano de Guglielmo, Ph.D.

[IDCII](#) *Basic Research*

Lauren DePoy, Ph.D.

[IDCII](#) *Basic Research*

Atsushi Fujimoto, M.D., Ph.D.

[IDCII](#) *Basic Research*

Gil Hoftman, M.D., Ph.D.

[IDCII](#) *Basic Research*

Emma Johnson, Ph.D.

[IDCII](#) *Basic Research*

Anne Marije Kaag, Ph.D.

[IDCII](#) *Basic Research*

Budhachandra Khundrakpam, Ph.D.

[IDCII](#) *Basic Research*

Sophie Laguesse, Ph.D.

[IDCII](#) *Basic Research*

David Lydon, Ph.D.

[IDCII](#) *Basic Research*

Rajtarun Madangopal, Ph.D.

[IDCII](#) *Basic Research*

Zayra Millan, Ph.D.

[IDCII](#) *Basic Research*

Ali Mohebi, Ph.D.

[IDCII](#) *Basic Research*

Takashi Sato, Ph.D.

[IDCII](#) *Basic Research*

Jennifer Tuscher, Ph.D.

[IDCII](#) *Basic Research*

Marco Venniro, Ph.D.

[IDCII](#) *Basic Research*

ATTENTION-DEFICIT HYPERACTIVITY DISORDER (ADHD)

Vincent Breton-Provencher, Ph.D.

[IDCII](#) *Basic Research*

Jessica Dennis, Ph.D.

[IDCII](#) *Basic Research*

Shulamite Green, Ph.D.

[IDCII](#) *Next-Generation Therapies*

Simone Haller, Ph.D.

[IDCII](#) *Basic Research*

Henry Hallock, Ph.D.

[IDCII](#) *Basic Research*

Ansel Hillmer, Ph.D.

[IDCII](#) *Basic Research*

Douglas Leffa, M.D., Ph.D.

[IDCII](#) *Next-Generation Therapies*

Behrang Mahjani, Ph.D.

[IDCII](#) *Basic Research*

[IDCII](#) *Diagnostic Tools/Early Intervention*

Anna-Sophie Rommel, Ph.D.

[IDCII](#) *Basic Research*

Diego Rovaris, Ph.D.

[IDCII](#) *Basic Research*

Takashi Sato, Ph.D.

[IDCII](#) *Basic Research*

ANXIETY DISORDERS

Matthew Albaugh, Ph.D.

[IDCII](#) *Basic Research*

Christoph Anacker, Ph.D.

[IDCII](#) *Basic Research*

Karmel Choi, Ph.D.

[IDCII](#) *Diagnostic Tools/Early Intervention*

Hong-yuan Chu, Ph.D.

[IDCII](#) *Basic Research*

Brian Corbett, Ph.D.

[IDCII](#) *Basic Research*

Giannina Descalzi, Ph.D.

[IDCII](#) *Basic Research*

Christian Ebbesen, Ph.D.

[IDCII](#) *Basic Research*

Janos Fuzik, Ph.D.

[IDCII](#) *Basic Research*

Kirsten Gilbert, Ph.D.

[IDCII](#) *Basic Research*

Shulamite Green, Ph.D.

[IDCII](#) *Next-Generation Therapies*

Simone Haller, Ph.D.

[IDCII](#) *Basic Research*

Keith Hengen, Ph.D.

[IDCII](#) *Basic Research*

Kathryn Humphreys, Ph.D.

[IDCII](#) *Basic Research*

Jing Jiang, Ph.D.

[IDCII](#) *Basic Research*

Jonathan Kao, Ph.D.

[IDCII](#) *Basic Research*

Florence Kermen, Ph.D.

[IDCII](#) *Basic Research*

Erica Korb, Ph.D.

[IDCII](#) *Basic Research*

Andrew Lee, M.D., Ph.D.

[IDCII](#) *Basic Research*

Jonathan Levy, Ph.D.

[IDCII](#) *Basic Research*

Behrang Mahjani, Ph.D.

[IDCII](#) *Basic Research*

[IDCII](#) *Diagnostic Tools/Early Intervention*

Sarah Moore, Ph.D.

[IDCII](#) *Basic Research*

Carole Morel, Ph.D.

[IDCII](#) *Basic Research*

Megan Mueller, Ph.D.

[IDCII](#) *Next-Generation Therapies*

Tiago Oliveira, M.D., Ph.D.
Basic Research

David Omer, Ph.D.
Basic Research

Maya Opendak, Ph.D.
Next-Generation Therapies

Mario Penzo, Ph.D.
Basic Research

Abha Rajbhandari, Ph.D.
Basic Research

Luis Rosas-Vidal, M.D., Ph.D.
Basic Research

Benjamin Scott, Ph.D.
Basic Research

Joel Stoddard, M.D.
Basic Research

Hugo Tejada, Ph.D.
Basic Research

Gergely Turi, Ph.D.
Basic Research

Gisella Vetere, Ph.D.
Basic Research

Frank Wolters, M.D., Ph.D.
Basic Research

AUTISM SPECTRUM DISORDER (ASD)

Paul Anastasiades, Ph.D.
Basic Research

Madeline Andrews, Ph.D.
Basic Research

Melody Atkins, Ph.D.
Basic Research

Melissa Caras, Ph.D.
Basic Research

Ritchie Chen, Ph.D.
Next-Generation Therapies

Arthur de Jong, Ph.D.
Basic Research

Jessica Dennis, Ph.D.
Basic Research

Christian Ebbsen, Ph.D.
Basic Research

Shulamite Green, Ph.D.
Next-Generation Therapies

Parthiv Haldipur, Ph.D.
Basic Research

David Hildebrand, Ph.D.
Basic Research

Sarah Hopp, Ph.D.
Basic Research

Helen Hou, Ph.D.
Basic Research

Wei-Hsiang Huang, Ph.D.
Basic Research

Juhyun Kim, Ph.D.
Basic Research

Chang Hoon Lee, Ph.D.
Basic Research

Yun Li, Ph.D.
Basic Research

Behrang Mahjani, Ph.D.
Basic Research
Diagnostic Tools/Early Intervention

Moritz Mall, Ph.D.
Basic Research

Robert McCutcheon, M.D., Ph.D.
Basic Research

David Omer, Ph.D.
Basic Research

Rachel Reetzke, Ph.D.
Basic Research

Sara Sanchez-Alonso, Ph.D.
Basic Research

Isabelle St-Amour, Ph.D.
Basic Research
New Technologies

Lu Sun, Ph.D.
Basic Research

Summer Thyme, Ph.D.
Basic Research

Celia van der Merwe, Ph.D.
Diagnostic Tools/Early Intervention
Basic Research

Gordon Wang, Ph.D.
Basic Research

Shuyu Wang, M.D., Ph.D.
Basic Research

BIPOLAR DISORDER

Masoumeh Dehghani, Ph.D.
Basic Research

Jonathan Hess, Ph.D.
Basic Research

Sarah Hopp, Ph.D.
Basic Research

Tierney Lorenz, Ph.D.
Basic Research

Katherine Musliner, Ph.D.
Diagnostic Tools/Early Intervention

Gijsje Snijders, M.D.
Basic Research

Jacob Taylor, M.D.
Diagnostic Tools/Early Intervention

Summer Thyme, Ph.D.
Basic Research

Frank Wolters, M.D., Ph.D.
Basic Research

BORDERLINE PERSONALITY DISORDER

Christian Ebbsen, Ph.D.
Basic Research

Jonathan Kao, Ph.D.
Basic Research

Takashi Sato, Ph.D.
Basic Research

Joel Stoddard, M.D., Ph.D.
Basic Research

DEPRESSION

Christoph Anacker, Ph.D.
Basic Research

John Anderson, Ph.D.
Next-Generation Therapies

Yuen Siang Ang, Ph.D.
Basic Research
Diagnostic Tools/Early Intervention

Pragathi Priyadharsini Balasubramani, Ph.D.
Next-Generation Therapies

Robin Cash, Ph.D.
Next-Generation Therapies

Flurin Cathomas, M.D.
Basic Research

Hong-yuan Chu, Ph.D.

IDCII Basic Research

Brian Corbett, Ph.D.

IDCII Basic Research

Giannina Descalzi, Ph.D.

IDCII Basic Research

Jennifer Dwyer, M.D., Ph.D.

IDCII Diagnostic Tools/Early Intervention

Christian Ebbesen, Ph.D.

IDCII Basic Research

Manoela Fogaça, Ph.D.

IDCII Next-Generation Therapies

Fabiano Gomes, M.D., Ph.D.

IDCII Next-Generation Therapies

Henry Hallock, Ph.D.

IDCII Basic Research

Keith Hengen, Ph.D.

IDCII Basic Research

Jonathan Hess, Ph.D.

IDCII Basic Research

Frankie Heyward, Ph.D.

IDCII Basic Research

Sarah Hopp, Ph.D.

IDCII Basic Research

Jing Jiang, Ph.D.

IDCII Basic Research

Bashkim Kadriu, M.D.

IDCII Next-Generation Therapies

Allan Kalungi, Ph.D.

IDCII Basic Research

Florence Kermen, Ph.D.

IDCII Basic Research

Amber Leaver, Ph.D.

IDCII Next-Generation Therapies

Yadong Li, Ph.D.

IDCII Next-Generation Therapies

Behrang Mahjani, Ph.D.

IDCII Basic Research

IDCII Diagnostic Tools/Early Intervention

Sarah Moore, Ph.D.

IDCII Basic Research

Carole Morel, Ph.D.

IDCII Basic Research

Tiago Oliveira, M.D., Ph.D.

IDCII Basic Research

Massimiliano Orri, Ph.D.

IDCII Diagnostic Tools/Early Intervention

Santosh Pothula, Ph.D.

IDCII Next-Generation Therapies

Andrea Reiter, Ph.D.

IDCII Next-Generation Therapies

Matthew Sacchet, Ph.D.

IDCII Basic Research

Gijsje Snijders, M.D.

IDCII Basic Research

Joel Stoddard, M.D.

IDCII Basic Research

Hugo Tejada, Ph.D.

IDCII Basic Research

Caroline Trumppf, Ph.D.

IDCII Basic Research

Frank Wolters, M.D., Ph.D.

IDCII Basic Research

EATING DISORDERS

Laura Berner, Ph.D.

IDCII Basic Research

Kirsten Gilbert, Ph.D.

IDCII Basic Research

Travis Goode, Ph.D.

IDCII Basic Research

Hakan Kucukdereli, Ph.D.

IDCII Basic Research

Trevor Steward, Ph.D.

IDCII Basic Research

OBSESSIVE-COMPULSIVE DISORDER (OCD)

Kirsten Gilbert, Ph.D.

IDCII Basic Research

Behrang Mahjani, Ph.D.

IDCII Basic Research

IDCII Diagnostic Tools/Early Intervention

PSYCHOSIS

Sonia Bansal, Ph.D.

IDCII Basic Research

Suheyla Cetin Karayumak, Ph.D.

IDCII Basic Research

Xi Chen, Ph.D.

IDCII Basic Research

Oliver Harschnitz, M.D., Ph.D.

IDCII Basic Research

Gil Hoftman, M.D., Ph.D.

IDCII Basic Research

James Marshal, Ph.D.

IDCII Basic Research

Juan Molina, M.D.

IDCII Next-Generation Therapies

Werner Surbeck, M.D., Ph.D.

IDCII Basic Research

Jacob Taylor, M.D.

IDCII Diagnostic Tools/Early Intervention

Eric Trautmann, Ph.D.

IDCII Basic Research

POST-TRAUMATIC STRESS DISORDER (PTSD)

Karmel Choi, Ph.D.

IDCII Diagnostic Tools/Early Intervention

Brian Corbett, Ph.D.

IDCII Basic Research

Jing Jiang, Ph.D.

IDCII Basic Research

Jonathan Kao, Ph.D.

IDCII Basic Research

Florence Kermen, Ph.D.

IDCII Basic Research

Erica Korb, Ph.D.

IDCII Basic Research

Jonathan Levy, Ph.D.

IDCII Basic Research

Sarah Moore, Ph.D.

IDCII Basic Research

Tiago Oliveira, M.D., Ph.D.

IDCII Basic Research

Maya Opendak, Ph.D.

IDCII Next-Generation Therapies

Abha Rajbhandari, Ph.D.

IDCII Basic Research

Luis Rosas-Vidal, M.D., Ph.D.

IDCII Basic Research

Benjamin Scott, Ph.D.

IDCII Basic Research

Hugo Tejada, Ph.D.

IDCII Basic Research

Gergely Turi, Ph.D.

IDCII Basic Research

Gisella Vetere, Ph.D.

IDCII Basic Research

Frank Wolters, M.D., Ph.D.

IDCII Basic Research

SCHIZOPHRENIA

Gulcan Akgul, Ph.D.

📄 *Basic Research*

Melody Atkins, Ph.D.

📄 *Basic Research*

Sonia Bansal, Ph.D.

📄 *Basic Research*

Renata Batista-Brito, Ph.D.

📄 *Basic Research*

Ren-Chao Chen, Ph.D.

📄 *Basic Research*

Xi Chen, Ph.D.

📄 *Basic Research*

Pengfei Dong, Ph.D.

📄 *Basic Research*

Shulamite Green, Ph.D.

📄 *Next-Generation Therapies*

Henry Hallock, Ph.D.

📄 *Basic Research*

Jonathan Hess, Ph.D.

📄 *Basic Research*

David Hildebrand, Ph.D.

📄 *Basic Research*

Sarah Hopp, Ph.D.

📄 *Basic Research*

Wei-Hsiang Huang, Ph.D.

📄 *Basic Research*

Sweyta Lohani, Ph.D.

📄 *Basic Research*

James Marshel, Ph.D.

📄 *Basic Research*

Robert McCutcheon, M.D., Ph.D.

📄 *Basic Research*

Juan Molina, M.D.

📄 *Next-Generation Therapies*

Keely Muscatell, Ph.D.

📄 *Basic Research*

Nicholas Neufeld, M.D.

📄 *Next-Generation Therapies*

📄 *Diagnostic Tools/Early Intervention*

Azahara Oliva, Ph.D.

📄 *Basic Research*

Lindsay Oliver, Ph.D.

📄 *Next-Generation Therapies*

Alan Park, Ph.D.

📄 *Diagnostic Tools/Early Intervention*

Linden Parkes, Ph.D.

📄 *Diagnostic Tools/Early Intervention*

Takashi Sato, Ph.D.

📄 *Basic Research*

Gijsje Snijders, M.D.

📄 *Basic Research*

Isabelle St-Amour, Ph.D.

📄 *Basic Research*

📄 *New Technologies*

Werner Surbeck, M.D., Ph.D.

📄 *Basic Research*

Jacob Taylor, M.D.

📄 *Diagnostic Tools/Early Intervention*

Summer Thyme, Ph.D.

📄 *Basic Research*

Eric Trautmann, Ph.D.

📄 *Basic Research*

Justin Trotter, Ph.D.

📄 *Basic Research*

SUICIDE PREVENTION

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

📄 *Diagnostic Tools/Early Intervention*

Niamh Mullins, Ph.D.

📄 *Basic Research*

Alexandre Paim Diaz, M.D., Ph.D.

📄 *Next-Generation Therapies*

Georgios Voloudakis, M.D., Ph.D.

📄 *Basic Research*

BIOLOGY OF THE BRAIN

(These projects focus on how the brain works)

Yuan-Hsin Chao, Ph.D.

(Cerebellum Circuitry)

📄 *Basic Research*

Coco Chu, Ph.D.

(Microbes and Microglia)

📄 *Basic Research*

Neir Eshel, M.D., Ph.D.

(Aggression)

📄 *Basic Research*

Daniel Fuerth, Ph.D.

(Molecular Basis of Memory)

📄 *Basic Research*

Andrea Gomez, Ph.D.

(Alternative Splicing and Synapses)

📄 *Basic Research*

James Heys, Ph.D.

(Temporal Encoding)

📄 *Basic Research*

Jing Ren, Ph.D.

(Serotonin System)

📄 *Basic Research*

Katlin Silm, Ph.D.

(Dopamine Regulation)

📄 *Basic Research*

Hansem Sohn, Ph.D.

(Cognitive Control)

📄 *Basic Research*

ALL DISORDERS

(These projects pertain broadly to all disorders)

Min Jee Jang, Ph.D.

(Genetic Screening)

📄 *New Technologies*

Pietro Giuseppe Mazzara, Ph.D.

(Cell Reprogramming)

📄 *New Technologies*

Karly Murphy, M.D.

(Stigma)

📄 *Basic Research*

Donna Werling, Ph.D.

(Gender Differences)

📄 *Basic Research*

OTHER DISORDERS

Alzheimer's Disease

Kiryl Piatkevich, Ph.D.

📄 *Basic Research*

Encephalitis

Oliver Harschnitz, M.D., Ph.D.

📄 *Basic Research*

Epilepsy

Summer Thyme, Ph.D.

📄 *Basic Research*

Parkinson's Disease

Hong-yuan Chu, Ph.D.

📄 *Basic Research*

Cesar de la Fuente, Ph.D.

📄 *Basic Research*

Eric Trautmann, Ph.D.

📄 *Basic Research*

2020 Young Investigators Institutional Affiliation at the Time of the Grant

(in alphabetical order)

Aarhus University, Denmark
Albert Einstein College of Medicine
Beth Israel Deaconess Medical Center
Boston Children's Hospital
Boston University
Broad Institute of MIT and Harvard
CERVO Brain Research Center, Canada,
Cold Spring Harbor Laboratory
Columbia University (7)
Douglas Mental Health University Institute, Canada
Erasmus University Medical Center,
the Netherlands
ESPCI (Ecole Supérieure de Physique et Chimie
Industrielles), France
Federal University of Rio Grande do Sul, Brazil
German Cancer Research Center, Germany
Harvard University/Beth Israel Deaconess
Medical Center
Harvard University/Brigham and Women's
Hospital (2)
Harvard University/Massachusetts General
Hospital (2)
Harvard University/McLean Hospital (3)
Haskins Laboratories
Hebrew University of Jerusalem, Israel
Icahn School of Medicine at Mount Sinai (10)
Interdisciplinary Center, Herzliya, Israel
INSERM, France (2)
Institute of Psychiatry/ King's College London, UK
Johns Hopkins University/Lieber Institute for Brain
Development
Johns Hopkins University School of Medicine (2)
Karolinska Institute, Sweden
Memorial Sloan-Kettering Cancer Center
Makerere University, Uganda
Massachusetts Institute of Technology (2)
McGill University, Canada
McGill University Health Center Research Institute,
Canada
Medical University of South Carolina
Moser Research Institute/Johns Hopkins University
Max Planck UCL Centre for Computational
Psychiatry and Ageing Research, UK
Medical Research Council Laboratory of
Molecular Biology, UK
Montreal Neurological Institute/McGill University,
Canada
National Institute of Mental Health (NIH) (4)
National Institute on Drug Abuse (NIH)
New York University School of Medicine
Norwegian University of Science and Technology,
Norway

Northwestern University
Queen's University, Australia
Research Foundation for Mental Hygiene, Inc
Nathan S. Kline Institute for Psychiatric Research
Rockefeller University
Seattle Children's Research Institute
SickKids Research Institute, Toronto, Canada
Stanford University (6)
State University of New York, Upstate Medical University
Tufts University
University of Alabama at Birmingham (2)
University of Bristol, UK
University of British Columbia, Canada (2)
University of Connecticut
University of California, Berkeley
University of California, Irvine
University of California, Los Angeles (4)
University of California, San Diego (3)
University of California, San Francisco (5)
University of Colorado, Denver
University of Guelph, Canada
University of Liège, Belgium
University of Maryland (3)
University of Melbourne, Australia (2)
University of Minho, Portugal
University of Minnesota Duluth School of Medicine
University of Nebraska-Lincoln
University of New South Wales School of Psychology, Australia
University of North Carolina at Chapel Hill (2)
University of Pennsylvania (3)
University of Pennsylvania/ Children's Hospital of Philadelphia
University of Pittsburgh
University of São Paulo, Brazil
University of Texas Health Science Center at San Antonio
University of Texas Health Science Center at Houston
University of Texas Southwestern Medical Center at Dallas (2)
University of Toronto/Centre for Addiction and Mental Health, Canada (3)
University of Utah School of Medicine
Utrecht University, the Netherlands (2)
University of Vermont
University of Wisconsin-Madison
University of Zurich/Zurich University Hospital of Psychiatry, Switzerland
Van Andel Research Institute
Vanderbilt University (2)
Vrije Universiteit Amsterdam, the Netherlands
Washington University, St. Louis (3)
Weill Cornell Medical College
Westlake University, People's Republic of China
Yale University (5)

The Klerman & Freedman Awards



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

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

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

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

**ANNUAL KLERMAN PRIZE
FOR EXCEPTIONAL CLINICAL RESEARCH**



Ellen Lee, M.D.
*University of California
San Diego; VA San Diego
Healthcare System*

**ANNUAL FREEDMAN PRIZE
FOR EXCEPTIONAL BASIC RESEARCH**



Cody A. Siciliano, Ph.D.
*Vanderbilt University,
Department of Pharmacology,
Vanderbilt Center for Addiction
Research*

HONORABLE MENTIONS



Soonjo Hwang, M.D.
*University of Nebraska Medical
Center/Nebraska Medicine*

HONORABLE MENTIONS



Kevin Beier, Ph.D.
*University of California, Irvine
Departments of Physiology
& Biophysics, Neurobiology
and Behavior, Biomedical
Engineering, Pharmaceutical
Sciences*



Hadar Ben-Yoav, M.Sc., Ph.D.
*Ben-Gurion University of the
Negev, Israel,
Department of Biomedical
Engineering and Ilse Katz
Institute for Nanoscale Science
and Technology*



Lorna A. Farrelly, Ph.D.
*Icahn School of Medicine at
Mount Sinai,
Nash Family Department of
Neuroscience, Friedman Brain
Institute*



**STRIVING
TOWARD CURES
THROUGH
RESEARCH**

Scientist Spotlight with: Ellen Lee, M.D.

2020 BBRF Klerman Prize for Exceptional Basic Research
2017 BBRF Young Investigator Award

Dr. Ellen E. Lee is an Assistant Professor of Psychiatry at the University of California San Diego and Staff Psychiatrist at the VA San Diego Healthcare System. She is board-certified in Psychiatry and Geriatric Psychiatry. Dr. Lee's research focuses on biological and psychosocial aging in persons with schizophrenia and healthy aging populations, specifically the links between inflammation, sleep disturbances, cognitive and cardiometabolic health. Dr. Lee's lab employs blood-based biomarkers, wearable sensors, qualitative interviews, and artificial intelligence technologies.

What is the current state of your BBRF-funded research?

My 2017 BBRF Young Investigator Award project that examined novel metabolic biomarkers in schizophrenia is coming to a close this summer. This project was expanded to also study the mechanistic relationships of sleep with cognitive and cardiometabolic outcomes in persons aging in schizophrenia, using objective assessments of sleep and vertically integrated experiments (from the genomic to cellular level) of inflammation. I am in the second year of a K23 career development award from the National Institute of Mental Health that will continue this work on aging in schizophrenia.

How do your interactions with people living with mental illness affect your research and vice-versa?

My passion for working with people aging with serious mental illnesses has always driven my research. In my first year of residency at the Maryland Psychiatric Research Center I was inspired by the treatment of patients who struggled with severe symptoms and adverse social circumstances, who were cared for as if they were family. To this day, my clinical work helps to inform my research questions and focuses on the outcomes that are most meaningful to patients and their families. In turn, my research helps me to innovate my clinical practices and integrate novel ways to support healthy aging for all my patients.

What has BBRF support meant to your career?

The BBRF funding has been instrumental in launching my research career—leading to my K23 award from the National Institute of Mental Health and expanding my research focus to examine sleep disturbances. I am fortunate to have been mentored by several members of the BBRF Scientific Council, including Dr. Dilip Jeste. Throughout my career, the BBRF has connected me with so many incredibly accomplished scientists in the field as well as opportunities for collaboration and mentorship.

In the best possible scenario, how would your work impact the people living with mental illness and their families?

Ideally, my research would improve well-being and quality of life for people aging with mental illness. The growing aging population presents a challenge for the capacity of our healthcare system, and we will need innovative approaches for improving mental health. Through clarifying the mechanisms of biological and psychosocial aging, I hope to develop interventions to improve sleep and loneliness, and thus, cardiometabolic and cognitive outcomes.

"I am incredibly honored to receive the Klerman Prize from the BBRF, an organization that has connected me to so many opportunities and mentors in my career. The BBRF Young Investigator Award was instrumental in launching my research career. With its generous support, I was able to establish my independent program of research and expand the focus of my work to the effects of sleep on aging in schizophrenia."

Scientist Spotlight with: **Cody A. Siciliano, Ph.D.**

2020 BBRF Freedman Prize for Exceptional Basic Research
2017 BBRF Young Investigator Award

Dr. Cody Siciliano is an Assistant Professor in the Department of Pharmacology at Vanderbilt University. His lab, part of the Vanderbilt Center for Addiction Research, investigates the circuits and receptors in the brain that control decision making, and how their function is altered in neuropsychiatric disorders. Disrupted decision making processes are a hallmark of many disorders such as depression and addiction. The lab seeks to understand how experiences can cause these deficits to occur, and how to intervene. A major focus of Dr. Siciliano's work has been to determine the neurobiological factors that produce vulnerability or resilience to drug and alcohol addiction.

What is the current state of your BBRF-funded research?

It has branched in many directions and formed the basis of virtually all the ongoing projects in my lab. Using the approaches we developed during the funding period, we're now investigating the cellular and circuit basis of vulnerability and resilience to a number of neuropsychiatric disorders, including alcohol-use disorder, cocaine-use disorder, and post-traumatic stress disorder. The approaches developed with BBRF support have also opened new avenues of research into psychiatric disorders outside of my group.

How do your interactions with people living with mental illness affect your research and vice-versa?

My interactions with patients inform my scientific questions and approach. They are the reason that I come to work every day, and why I have dedicated my career to understanding and treating these disorders. I hope that our work helps them to understand the origins of these disorders and gives them hope that research provides an avenue toward improved conditions for themselves and others.

"My BBRF-funded work has formed the basis of virtually all the ongoing projects in my lab. We are now investigating the cellular and circuit basis of vulnerability and resilience to alcohol-use disorder, cocaine-use disorder, and post-traumatic stress disorder. Approaches developed with BBRF support have opened new avenues of research outside of my group as well, as these approaches have begun to be utilized by other labs in field."

What has BBRF support meant to your career?

My BBRF Young Investigator Award allowed me to take risks and pursue my most ambitious research questions. Not only were these funds critical for moving my science forward; support from BBRF also catalyzed my research during the critical transition period of starting my lab. BBRF's focus on bridging the gap between preclinical and clinical research to develop new approaches to psychiatric treatments is particularly important and unique among brain research funding.

In the best possible scenario, how would your work impact the people living with mental illness and their families?

Our ultimate goal is to improve the conditions of patients with psychiatric illness, through developing our understanding of the neurobiological basis of these disorders and through developing new approaches for treatment. A successful outcome of our research would lead to approaches for identifying individuals at a high risk for substance use disorders, which would allow for preventative measures to reduce the prevalence of these disorders. Further, it would lead to improved pharmacotherapeutic strategies for treating deficits associated with long-term drug or alcohol use, which would reduce relapse rates as well as facilitate patients' ability to return to their normal activities.



**STRIVING
TOWARD CURES
THROUGH
RESEARCH**

2020 International Mental Health Research Virtual Symposium

For the past 30 years BBRF has held its Symposium as a live event in New York City. This year because of the coronavirus pandemic we switched to a virtual event, which allowed us to reach a much broader audience.

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

The seven BBRF 2020 Outstanding Achievement Award winners shared new breakthroughs and insights on schizophrenia, bipolar disorder, depression, autism, cognitive neuroscience, and childhood psychiatric disorders at this year's symposium.

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

The symposium is available to watch free on-demand at

<https://www.bbrfoundation.org/event/international-mental-health-researchsymposium>

Presentations included:

Identifying A Genetic Subtype of Schizophrenia that is Clinically Relevant for Patients and Families

Anne S. Bassett, M.D., FRCPC

University of Toronto

BBRF LIEBER PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN SCHIZOPHRENIA RESEARCH

Dissecting the Role of Repetitive Regions of the Genome in Schizophrenia and Autism

Melissa Gymrek, Ph.D.

University of California San Diego

BBRF MALTZ PRIZEWINNER FOR INNOVATIVE AND PROMISING SCHIZOPHRENIA RESEARCH

Thinking Rationally about the Treatment of Bipolar Disorder

Martin Alda, M.D., FRCPC

Dalhousie University

BBRF COLVIN PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN MOOD DISORDERS RESEARCH

How Pain Shapes the Brain: Impact of Childhood Trauma on Suicide Risk

Gustavo Turecki, M.D., Ph.D.

McGill University

BBRF COLVIN PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN MOOD DISORDERS RESEARCH

How Early Childhood Experiences Shape Brain Development and Influence Mental and Physical Health Trajectories

Joan L. Luby, M.D.

Washington University School of Medicine

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

Prefrontal Circuits that Regulate Threat and Reward-Elicited Behaviors

Angela C. Roberts, Ph.D.

University of Cambridge

BBRF GOLDMAN-RAKIC PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN COGNITIVE NEUROSCIENCE RESEARCH

A Causal Analysis of the Attentional Network

Robert Desimone, Ph.D.

Massachusetts Institute of Technology

BBRF GOLDMAN-RAKIC PRIZEWINNER FOR OUTSTANDING ACHIEVEMENT IN COGNITIVE NEUROSCIENCE RESEARCH

Thirty Years of Studying Families at Risk for Depression: What Have We Learned?

Myrna M. Weissman, Ph.D.

2020 PRIZEWINNER, BBRF PARDES HUMANITARIAN PRIZE IN MENTAL HEALTH

The Pardes Humanitarian Prize in Mental Health

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

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

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

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



WINNERS

2020

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

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

2019

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

Honorary Tribute:
Cynthia Germanotta & Born This Way Foundation

2018

Judge Steven Leifman

Honorary Tribute:
Suzanne and Bob Wright

2017

Doctors Without Borders/
Médecins Sans Frontières

Honorary Tribute:
Constance E. Lieber

2016

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

Honorary Tribute:
Senator Edward M. Kennedy

2015

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

Honorary Tribute:
Rosalynn Carter

2014

Herbert Pardes, M.D.



Myrna M. Weissman, Ph.D.



Sir Michael Rutter, FRS



E. Fuller Torrey, M.D.

In 2020 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.

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

All webinars are available for viewing on the BBRF website.

January 14, 2020

Using Tools of Neuroscience to Make Personalized Care a Reality in Schizophrenia

[Gregory A. Light, Ph.D.](#)

May 12, 2020

Using Neuroscience to Evaluate and Guide Treatment for Pediatric Mood Disorders

[Manpreet Kaur Singh, M.D., M.S.](#)

September 8, 2020

Assessing and Managing Adolescent Suicidal Behavior: New Approaches

[David A. Brent, M.D.](#)

February 11, 2020

How Drug Dependence Impacts Decision Making

[Christina Gremel, Ph.D.](#)

June 9, 2020

The Science of Parenting and Parent-Based Treatment for Childhood Anxiety Disorders

[Eli R. Lebowitz, Ph.D.](#)

October 13, 2020

Why Did I Eat That? Obesity and the Neuroscience of Food Craving

[Carrie Ferrario, Ph.D.](#)

March 10, 2020

Brain and Behavior Based Strategies in the Treatment of OCD

[Christopher Pittenger, M.D., Ph.D.](#)

July 14, 2020

Widely Prescribed Stimulants and the Risk of Psychosis in Young People with ADHD

[Lauren Moran, M.D.](#)

November 10, 2020

Not Feeling It: Adolescent Depression and Reward Processing Gone Awry

[Erika E. Forbes, Ph.D.](#)

April 14, 2020

Can Traumatic Memories Be Erased?

[Stephen Maren, Ph.D.](#)

August 11, 2020

An Update on Treatment of Bipolar Depression

[Andrew A. Nierenberg, M.D.](#)

December 8, 2020

Using Genetic Maps of the Brain to Understand Autism & Related Psychiatric Illnesses

[Daniel Geschwind, M.D., Ph.D.](#)

Healthy Minds

With Dr. Jeffrey Borenstein



Minority Issues in Mental Health Care
Guest: Altha Steward, M.D.

“The goal of ‘Healthy Minds’ is to inspire conversations about mental illness and provide understandable information and resources for our viewers. People should not suffer in silence.”

– Dr. Jeffrey Borenstein

Healthy Minds with Dr. Jeffrey Borenstein aims to remove the stigma of mental illness and demonstrate that with help, there is hope. The series focuses on common psychiatric conditions through inspiring personal stories, as well as experts sharing cutting edge information about research and treatment.

The program is available to watch online at www.bbrfoundation.org/healthy-minds-tv.



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

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

The Moritz Hilder Innovative Brain Research Fund is held in a professionally managed, separate endowment fund. On an annual basis, 5% of the endowment fund will be expended to support PTSD research. A special committee of the BBRF Scientific Council will select which BBRF Grants will be funded by this Endowment. In 2020, the Endowment provided \$175,000 for the first year of funding five PTSD research projects.

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



THANK YOU TO OUR DONORS

Your support this year enabled us to fund more than \$18.6 million to leading scientists undertaking the challenges of brain and behavior research.

Since our founding in 1987, in partnership with donors around the world, BBRF has invested more than \$418 million and funded more than 6,000 grants to more than 5,000 scientists worldwide.

We deeply appreciate and are inspired by all of our donor's passion and commitment to advance psychiatric research.



BENEFITS OF BECOMING A RESEARCH PARTNER

Barbara Toll

BBRF Board Member & Research Partner

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

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

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

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

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

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

Visit us at bbrfoundation.org/researchpartners.

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Jeremy Addison
Roy and Paula Aguayo
Bill Aheron and Lisa Luth
All Essential Mental Healthcare Workers
All suffering from OCD and other
mental illnesses
All the young people
Chris Allen
Christen Allen
Mark Aloise
Jeffrey Scott Alvins-Klein

Amber Michelle
AmeriHealth Caritas PA Ancillary Team
Mark Anastasi
Ashton Anderson
Jenna Anderson
Matthew Anderson
Angie Sue
Annette
Ano
Robins and Andrea Antoine
Arliza Rachel
Jess Armour
Jennifer Arn-Suggs
Gibi ASMR
Chris Athans
Patricia Aussem
Richard Austin
Avery Elizabeth
Mom and Dad Ayres
Richard Ayres and family
Emily Bach
The Backer Family
Jennifer Baer-Atkins
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Sophia L. Bailor
Cynthia A. Baker
Jonathan Baker
Michael R. Baker
Joseph Baldivia
Gloria Baltar
Bonnie Banks-Wolf
Justin Bannon
Jessica Barbick-Noonan
Elizabeth Barcomb
Judy Barger
William Barksdale
Henrietta Baron
Richard A. Baron II
Ramiro Barriga-Calderón
Bella Barrows
Naomi Bartakke
Tara Bartley
Joy Bartman
Jill Barzilay
Susan K. Bass
Lawrence T. Bauer
Dr. Lewis R. Baxter, Jr.
The Bay Family
John C. Bayat
Matthew O. Beaudry's friends
who didn't make it out
BeBop
Becca Ann
Krista Beeman
Brandon Beigler

Nora G. Belansen
Sawyer Bellecourt
Jessica Belmarez
Kyle Bentain
Grace Bentley
Sara Benton-Huggins
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Alexander Berger
Brian Berger
Ellen Bernstein
Emily Bernstein
K.C. Berry
Paul Berry
Hannah Berryan
Mayur Bhagat
Colby Bienkowski
Susan S. Bigelow's sister, Carol Louise
Connie Bigler
Kata Bikszegi
John J. Birkenhief
Malcolm Blacc
Mary Alice Blizzard's grandson
Charles S. Blumenfield's son
Lori Boatman
Paris Bollinger
Leana Bonczkowski
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Sheila Reba Bottjen
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Karen Boyle
Bob Bradley
Melcenia Bradshaw
David Bragen
Jack Bragen
Brain & Behavior Research Foundation
Nancy H. Bralick's daughter
Tyler Tee Bramble
Warren Brand's friends and family
that suffer
Jeffrey M. Braun
Julio Bravo and Lidice Gonzalez
Jessica Joy Brigante
Jeffrey Brodbeck
Stephan Broderick
David Brooke
Alison Brooks
Gertrude Brown
Margaret F. Brown's mother
Tommy Brown
John Brown-Lauria
Jason Brzozowski

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Barbara Buckes
Ana-Maria Bucur
Robert Buhrman
Charles (Charlie) Bunting
Lucas Burke
Margot Burns
Christine Burrows
Trella Burton
Carlie Byer
Leslie Bynum
Savannah Camper
Jessica Carli-Watkins
Lena Carlson
Brandon Carlton
Hannah Carney
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Katie Carroll
Tyler Case's wonderful girlfriend
Laura Casey
Amanda Cash
Haley Casselman
Edwardo J. M. Castro
Nick Catalfamo
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Kim Charleson
Jessica Chen
Sho Tin Chen
William Chick
Lauren Chong
Victoria Chua
Natalie Cizik
Dianne L. Clack
Sarah Clark
Sherry Claxton
Jesenia Clow
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Hannah Coleman
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Haunna Connolly
Shannon Conrey
Hailey Cook
Kellie I. Cook
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Kylie Cooney
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Matthew and Ann Costello
Amy Courtright-Richards
Sally Cousins
Shelley Covey
Catherine Cramer
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Savannah Crilly
Tiffany Crowe
Chris Crowley
Emma Czajka
Danielle D.
Justin Daniels
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Shurabhi Das
Carole C. Daughtery
Rachel Ayn Davis
Colleen Davoli
Liam and Louise Dawson
Jamie DeAntonis
Jeffrey DeBono
Kris DeCastro
Kiera DeCesare
Dorrie DeGutis
Megan Dellorto
Natalie Denka
Mark Denning
Nick DeSantis
Alice Desmond
Irene Desroches
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Sue Ellen Dodell
Reed B. Donat
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Margaret Doncov
Oscar Donis
Brittney Donlin
Chris Dosmann
Bobby Dowling
Darcel Ann Downing
Charlie Drinnan
Tyler Drudge
Christina Du Mont
Jacob Dubblestyn
Amanda Dubois
Patrick and Maureen Duffin
Lexi Dumont
Rachel Dunlap
Lauren R. Duran
Adrienne Durant
Meghan Dwyer
Ryan and Erin Easter
Jason Eastman
Joseph E. Edelman
Angus Edwards and Renee Morita
Drs. Kurt and Mary Edwards
James (Jim) Egan
Christopher and Lindsay Eginton
Kaspars Eglitis
Alan Einstein
Elba Maria
Dr. Bob Elde
Lyssa Elegeert
Mimi Elizabeth
The Levy's granddaughter, Ella,
on her 12th Birthday
Beth and Rob Elliott
The Elliott Family
David and Mary Jo Ellis
The Erb Family
Ashley Anne Ericksen
Sara Renee Angelina Erikson
Erin Lynn
Paul Estes
Everyone who is affected by depression,
anxiety, or is/was a victim or survivor
of suicide.
Everyone with kind intentions
Fae's brother
Alexandra Famiglietti
Esther Fein
Max A. Feinstein
Mallory Felmet
Jacquie Fenner-Harnack
Laura Ferguson
Neil Finendale
Robert Fingeroth
Courtney Fink
Ellen Finkelberg
Tamara Finlay
Andrew Fischer
Courtney Fitzgerald
Gregory S. Fitzgerald
Sean Flaherty
Laura and Scissors Flook
Andrew Foulk
Veronica Ariel Fowle
Polly Kay Fox
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The Clients of Freedman Healthcare, LLC
Julie Freidus
Shea N. Friedland, M.D.

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Brad and Linda Friedman
Jerry and Cynthia Friedman
Greg Frontiero
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Phillip Funderburk
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Emilie J. Gannon
Ashley Gantenberg
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Colton Ryan Gardner
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Faye Gentile
Lewis Gentile
Peter Gerbeth
Ethan Gerhart
Steve and Allison Ghivizanni
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Kegan M. Gill
Kari Gilpatric
Frank and Phyllis Gladstone
Sarah Jane Goasland
Beth Goetz
Jill Goldin
Nick Goode
Chad Goodin
Laila Gordy
Lalleh Gordy and Shab
Goz
Kenneth Grams' son
Bonnie Grande
Melody Grant
Chloe Greening
Madonna Greer
Joshua Gregory
Amber H. Griego
Patricia G. Griffin
Mike Grillo
Carl M. Gropper
Debbie Grose
Gabriela GT
Rosa Guerra
Edward Gunther
Dr. Laszlo Gyulai
Emily Haberkorn
Haiwen and Bob's Baby Shower
Halee Arlene

Kent J. Hall
Joanna (Joey) Jann Halloway
Bonnie D. Hammerschlag
Beth Handler's daughter on her
19th Birthday
Beth Handler
Brittany Haneberg-Worsham
Clint Hannah
Etienne Hansen
Pat Hansen, Jr.
Bruce Harlow, Sr.
Susan Harper
Brenda Harralson
Kevin Harrington
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Bree Harrison
John Kennedy Harrison II
Susan Harrison
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Thidavann Hartridge
Greta Hartsell
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Megan Hillman
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Michelle Hincapie
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Terry Hoffman-Forbes
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Wayne Holbrook
Kevin Holleran
Rachel Holm
Karen Holt
Francie Holte
Alexandra Holterman
Edwin Hong
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Lindsay House
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Rosemary Hughes
Amanda Leigh Hughlett-McLeod
Ashley Hundley
Kristy Natalie Huntley
Morgan L. Hurd
Angela Hurtado
Adam Hurwitz
Mark A. Huyber
Alex Hyacinthe
Kenneth Hyacinthe
Bassey Ikpi
The Impact Team, University of Iowa –
Thanks for all you do!
Douglas D. Inmon
Louis Innamorato, CPA
Francesca Iorio
Ginger Irwin
Isis
Nina Jackson
Ryan Jackson
Kerry Jackson-Foley
Lea E. Jacobs
Chris Jacobsen
Ellen Jagggers
David Jalava
Eric James
Melissa James
Marie Jana's nephew
Harlan R. Janes
Jasmine
Bruce Jensen's daughter
Bruce Jensen
Jordan Jensen
Ryan Jepson
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Edward P. Jones
Suzette Jones
Saramma Joseph
Stephanie Josephine
Kenny Juarez
Judah Ariel
Patricia Judd
Justine

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The Kane Family
Robert J. Kane and Rebecca K. Davies-Kane
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Kara Patrice Karen
Nicholas Katherina and his mother, father, fiancé, sisters, brother-in-law and best friend
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Elliot Keenan
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Sheila King
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Jack Kiser
Dr. Robin Kissell
Amy Klauke
Wendi Knape's daughters
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Alexander Kocinsky
Bryce Koenig
Yukiko Koga
Grace Koh
Mary Ann Kohaut
Bri Kolenda
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Megan Korne
Karl F. Korpela
Madison Kovarik
Emma Kovářová
Tim Kramer
Howard and Shelley Kristol
Margie Kuenzli
Raquel Kurolapnik
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River Lackey
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Landon Lane
The Lang Family
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Brett Lashlee
Leather Laudet
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Ruth H. Layton
Anna Lee
Bridget Lee
Paul Lee
Ty Lee
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Marvin Leichtung
Andrew Leslie
Dr. Stephen Levin
Gary and Cindy Levinbook
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Richard and Rosalie Lewis
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Sophie Elizabeth Lieberman
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Matt Marchiony
Joshua J. Marer
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Beth Marks
Katie Martin-Scott
Marta Martin-Perez
Amy Marvin
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Debra Milinsky
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Honor Tributes (continued)

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Julie Miller
Matthew Miller and Sonja Hyltoft
Noah Miller
Robin Miller
Kasey Miller-Stover
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Sam Miltich
Andrew J. Mitchell III
Barbara Mitchell
The Professionals at the Monroe Clinic
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Jose Morales-Dorta
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Joel Mullins
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Jaime Lynn Myhre-Amezquita
Andrew Nadeau
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Jessie Nashan-Ross
Nataline
Ilana Neenan
Neil
Tamer Nemri
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Jennifer Newton
Dominic Nguyen
Mandy Nicholle
Matthew E. Nichols
Cara Nicolano
Rubye E. Noble-Evans' brother
Cain M. Norris

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Santo Sonny Novelli
Bryan Odom
Melyssa Okazaki
Laura Olander
Brenda Oliver
Jonah Oliver
Kyle Olson
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Gail Orris
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Olivia Panno
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Sallie M. Parker
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Margaret Paz
Brooke Penland
Dr. David Penn-Soskin
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Joel Perez
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The Perlmutter's "Our Boys"
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Tanner Pierce
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Dirk Pohlers
Joseph Pompo
Dr. James Poole
John Porter
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Kayla Prata
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Jacob Preble
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Noosh Prljaca
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Brianna Quirk
r/wallstreetbets
Karen Rackley-Credeur
Radha
Bella Radosti
Ed Rafferty
Rebecca Ramsey
Saira Rand
Randy "The Rocket"
Thomas and Jessica Rangel
Rebellious Reddit Idiot
Kay Redfield-Jamison, Ph.D. and her
book "The Unquiet Mind"
Andy Regos
Dana J. Reid
Linda Reid's granddaughter
Patty Reid
Lauren Reinholt
Emil Revilla
Thoraya Rey
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Valerie Richards
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Samona Rosborough-Pasquale
Melissa Rose
Rebbequah Rose
Rachel Rosenblum-Monahan
Marc Rosenmutter
Linda Rossi
Faith Rothblatt
Ann Royall-Bolton (Royall-tee)
Megen Ruffino
Edward Rupp
Laura Russell

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Mary E. Schultz
Cristi Sclafano
Kathy Scott
Dawn Maria Sculli
Steven Searcy
Kevin Sebert
Alison H. Seeds
Kit Seeds
Allen Sellers
The Sellon Family
Leah Serpiea
Sakshi Sethi
Shamus Sean
Kelsey Shapiro
Dewayne Shaw
Karen A. Shea
Pat Shea and her amazing artistic talents
Maliha Shekhani
Maddy Shellman
Nyla Sherazi
Laurent Shiels
Michael O. Shows
Maggie Higgins, M.D. and
Jack Shuler, M.D.
Lilian Sicular
Ethan Sill
Jinny Silver
Dr. and Mrs. Mark Silver
Andrea Graham and Geoffrey Simon
Joninna Simpson
Amanda Sizemore

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Blaide Smith
Glen M. Smith
Jackson Smith
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Brandon Staglin
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Rachel Steahr
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Samantha Stevens
Shelley Stevens
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Kathryn Sturzik
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Steven and Elissa Suarez
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Chaoran Sun
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Jessica Swauger-Gorzelic
Shawn G. Sweeney's daughter
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Nancy Sylvester
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Grasey Szwedkovicz
Linda Tabb
Rena Taliaferro

Nick Talisman
Alexandria Tamburo
Peter J. Tarr, Ph.D.
The Levy's granddaughter, Taylor,
on her 6th Birthday
Maria-Christina Taylor-East
Riley Tandler
David TeSelle
Joshua Thai
Christopher Thomas
Barry Thomasson
Kelsey Thompson
Jeannette Thompson-Swain
Cat Thomson
Sheila Thornton
Those fighting mental illness everyday
Jim and Kelly Timple
Susan Tinch
Kimberly Tipton
Kristen Tizon
Bosworth M. Todd, Jr.
Barbara Toll
Isabella Ton
Joan Ton
Lori Tonne
Too, too many
Jemuel Torres
Maria Tosti
Vittorio Tosti, Jr.
Dave Trager
Glenn Tredinnick
Autumn Trim
William Triolet
Jeslyn Lane Tweedie
u/lackingcheer
Kim Underwood
Mark and Ann Marie Underwood
David M. Unger
The Universe
Martin Ureel
Amy VanderZanden
Veena Anna Varki
Kristen Vazzana
Jessica L. Vera
Corynne Vermillion
Kristin Verost
Deandra Vetter
Liz Vhp
Victoria Vieira
Christian Viera
Conner Vierra
Vijayaellemma
Mark Voegele
The Von Lazar Family

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Susan Walker
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Andrew Ward
Jen Ward
Justin Ward
Maci Ward
Penny Ward
Yuliya Ward
Drew Ware
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Sheelin Weed
Max Weekes
Heiko Weideman
Charlotte L. Weig
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Mr. and Mrs. R. Graham White III
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Aaron Williams
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Bonnie Wolf
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Albert Yeung
Simon Yingling
Coleman Young
Isabella Young
Josh Young
Caroline Delgado and Darlin Zambrano

Ashley Zare
Eleanor Zarski
Laura Zawack
Levi Zelanko
Renee S. Zenker's son
Charles Matthew Zitko

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Randy L. Abbott
Arnold L. Abrams
John (Jed) B. Abrams
Elizabeth Adams-Addorio
Cecilia J. Adamski
Stephenson D. Adkins
Gladys M. Albright-Fisher
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All victims of addiction
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Shirley A. Anderson's twin sister, Sharon
Susan (Sue) K. Anderson
Seymour Angert
Noah S. Arnold
Edward Arvey
Anastasia Ashley's brother
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Grant Backerman
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Timothy L. Barney
Brandon L. Barnhouse
Dorothy G. Barraclough
Terrence Barraclough
Katharine (Katie) C. Barrila
Dane P. Barry
Sheila Barth

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Michael (Mike) T. Baumgardner
Brenda Beach
Matthew Beaney
Rich Beck
Laura Beitler
Cliffton Bell
Yitzchak Ben Esther
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Kurt M. Bertram
Brian A. Bezonsky
Kevin M. Bezonsky
Arvind Bhandari
Kalyan Bhandari
Rajesh Bhandari
Deepak Bhasin
Mary and George Bieber
Lee A. Billman
Stephen J. Binder
Elliot Blafer
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Sherman J. Bolton
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Antoni (AJ) J. Bonnell
Zach Boothby
Clara Borkowski
David W. Borks
Walter J. Boyle
Brad
David (Chip) Bradley
Eric Brady
Robert Branch
Angela R. Brayer-Wilson
Christopher D. Brehl
Benjamin C. Breisch
Owen Brennan
Iva M. Breslin
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Daniel S. Brown
John Browning

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Susan A. Caltrider
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Sara Campbell
Oscar Canavan
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Dennis J. Carlton
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Ann V. Christie
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Colter Dallman
Richard (Deke) D. Daly
Jerry D'Andrea
Margaret M. Dann
Stanley F. Dann
Vincent A. Dann
Darlene
Elizabeth Davis
Mark Davis
Terrence (King Terry) A. Davis
Patricia Davis-Shields
Dean
Dean (Kruzadar YT)
Katie Jane Dean-Cunningham
A. Louise DeAngelis
Caitlin Deckman-Wade
Frances (Misti) Dedon-Gourgues
Mary M. Deely
Michael Delaney
Elizabeth M. Delfeld
Angeline DeLorenzo
Angela DeMartino
Regina Denale
Janice E. Denning
D.D. Dennison
Katherine Deschner
Emmett Desroches
Henry (Hank) J. Deutschendorf II
Steven Deutschman
Linda L. DeWitte's mother and sister
Nathaniel J. Dickinson
Bonnie DiGiovenale
Jacqueline Dimmock, Ph.D.
Robert D'Innocenzio
Mary DiScipio
Ralph DiScipio
Kenneth Ditzel
Brandon Dixon
Jonathan E. Dixon
Nicholas (Nick) A. Dobbert
Leah Dobbins
Ilya N. Dolce
Erich J. Doll
Gail Donaldson
Peter J. Dooher
Liza M. Dorfman
Murray W. Dorin
Eric T. Dorris
Fae Dougan
Rachel L. Drabenstott
Geraldine Drayer
Ryan M. Drescher
Sandra G. Dreyfuss
Lorraine Dryden
Valerie A. Dryden
Kyle W. DuBose
Michael A. Ducate
John L. Duda
Ronald S. Duman, Ph.D.
Rhonda L. Duszik
Mona J. Dyar-Robertson
Todd J. Eaton
Ronald (Ronnie) Oni Edwards
Rebecca E. Ehrlich
Craig Eisenberg
Ann Eisner
Katie El-Helou
Kira N. Ellis-Nabor
Shereen Elnemri-Johnson
Francis Else-Mitchell
Glenn Engler
Timothy J. Ertter
Pablo Espada
Catherine (Catie) A. Etier
Margaret Evans
Justin B. Evarian
Marian (Molly) P. Everdell
Brian (Whitey) S. Evers
Christopher H. Ezzell
Miriam Factor
Benjamin C. Faetanini
Jordan Falco
Joyce L. Farrell
Robert (Bob) Feckler

Memorial Tributes (continued)

Ray Feinhandler
Steve Feinhandler
Seymour Feinland
Herman F. Feldmann, Jr.
Jacquie Fenner-Harnack's mother
Wayne S. Fenton, M.D.
James (Alec) A. Fentum
Catherine Finn
Bruce Fischbein
Carrie F. Fisher
Jonathan J. Fisher
Sandy Fisher-Johnson and her children,
Jimmy and Faith Ann
Ruth H. Flick
Raymond J. Flood, Jr.
Helen C. Fontana
Jessica A. Forbes
Mary Foster
Joseph K. Fowler
Kristin M. Francescon
Carol R. Freeman
Gail W. French
Harvey Friedenber
Alan Friedman
Burton Friedman
Jason C. Frisco
Eric A. Fritts
Mark Froimowitz
Seymour and Susan Frolichstein
Christopher Furay
Tommy Fuss
George Gaiennie III
Mary Gallagher
Lila Garber
Tony Garnett
Bettyanne Geikler
Lisa George's mother
Bradley Gianakos
Kevin Gibas
Steven H. Gibson
Stephanie Gillis-Johns
Dr. Guy Glenn
Brian D. Go
Christopher G. Goetz
Carol Gold
Dr. Patricia Goldman-Rakic
Dana Goldstein
Zachary Golub-Rosen
Daniel Gomez
Mariela Gomez
Joseph (Chaz) C. Gonzalez
Deanna Good
Gregory S. Goodale

Allan Goodman
Esther L. Good-Savage
Ethel G. Gordon
Lucille Gordon
Mark Gordon
Ellen Gottfried
Eileen Gould
Richard H. Gramann
Annie Granger
Carolyn Grant
John Grant
William Francis Grant 1st and 2nd
Tim Gray
Mark J. Greenlee
Bernice Greenwold
David N. Greenwood, M.D.
Matthew J. Gregory
Paul Gresch, Ph.D.
Donald Griffin, Sr.
Noah J. Grimes
Robert A. Groover
Delores Guarnieri
Suzanne R. Guerra
Thomas S. Gumpert
Gilbert R. Gundersen
Amanda G. Gurley
H.P.
Grace Haas
Charles (Charlie) W. Haeger
Nicholas Hall
Stephen Ham
James (Jim) M. Hamel
Henry (Hank) Hanau
Alice Happ
Matthew J. Hardin
Jason R. Hargarten
Brett A. Harlow
John B. Harlow
Margaret Harrington
David and Ellen Harris' father
Fred Harris
Savanna R. Harris
Gary E. Hart
Victoria L. Hart
Kurt Hartman
Danny Hayes
Ronald Hayes
Schuyler G. Hayward
Kevin J. Heald
Maria Hegedus
Bradley R. Heilman
Cody Heim
Scott L. Helt
Alicia Hernandez

Cody A. Hertz
Gerard (Rod) E. Hess
Dennis B. Higgins
Jeffrey K. Hill
Daniel G. Hinden
Paul D. Hinrichs, D.O.
Virginia M. Hohn
Corinne H. Holt
Dr. Philip S. Holzman
Jason Homrig's the love of his life
Krista Hook
Marc Hopkinson
George C. B. Hosley
Huijun Hou
Bradley Howard
Paul E. Howard
Jacob Howes
Joan (Joani) M. Hubert
Eva Hudak's mother
Richard Husted, Jr.
Justin D. Hughes
Ben Hughlett
Miles P. Humbaugh
Gregory J. Humes
William (Billy) W. Humphrey
Alan N. Hundert
Dylan-David Hunter
James S. Hutto
Robert Inman
Naveed Iqbal
Jane Irwin-Malinoff
J.K.L.
Daniel P. Jackson
Marion Jackson-Smith-Mitchell
Lea E. Jacobs
Prem Jajoo
Maryann James
Dr. Nabeel Jarudi
Ali Jelveh
Jordan Jensen's best friend
Sheldon Jeral
Jess
Sanjay Jhaldiyal
Alexander D. Johnson
Hannah Johnson
Justin Johnson
Kristine J. Johnson
Michael D. Johnson
Ryan P. Johnson
Connie Johnson-Capps
Ashley (A.J.) O. Jones
Kim Jong-hyun
Andreas (Dre) P. Kahan
Leif Kamara

Memorial Tributes (continued)

Ian W. Kamp's brother
Cheryl A. Kane
Richard (Richie) J. Kane, Jr.
Robert J. Kannenberg
Steven Karp
Allison Katzman
Titus J. Kauffman
Claude R. Kaufman
Angela Keeney
Jan Kellas
Maureen Kelly
William G. Kelly III
Michael F. Kenigsberg
Timothy S. Kennell
Patrick (Stacy) W. Kenny
Sarah Ketchum-Bradley
Kevin
David J. Kilcoyne
Paul Killea
John S. Kim, M.D.
Young O. Kim
Charles C. Kimbro
Doris Kimbro
Stephani L. King-Chapman
Robert Kinn
Jonathan S. Kinsley
Jill A. Kirby
Elly Klamo
Doris M. Knapp
Michael Knutson
Rachela F. Koch-Swica
Grace Koh's spouse, Luca
Christine Kohlstedt
Peter C. Kohn
Bernard Koire
Nina Koire
Melody Kokokoszka
Richard L. Komray
Arty Kononchik
Richard C. Kopecky, Sr.
Daniel B. Kopel
Frederic B. Kopel
Brennan M. Kornak
Carrie J. Korne
Megan Korne's mother for her
50th Birthday
Diane A. Koskinas
John B. Kramer, Jr.
Sandra (Sandy) M. Kriz
John Kruger
Kendal A. Kucera
Marc A. Kuder
Arnold Kudrowitz

Daniel Kupchik
James J. Kurker
Rabbi Moshe Kushner
Murry Kusmin
Peter Kustikov
Robert E. La Blanc
Allan H. Lambert
Dr. Benjamin J. Lambiotte, Jr.
Sherrill L. Lamppin-Bohart
Deborah L. Lancaster
Johnny Landis
John Landmesser, Jr.
Lina M. Lanza
Carole Jean Laping
Conrad Larsen
Vicki Larson
Nancy G. LaRue
Charlene Lat
Sean P. Lathrom
Jenna R. Laubach
Brendan L. Lauderdale
Robert E. Lauer
Matthew J. LaVan
Justin A. LaVenter
Megan Lavin
Peter Lee
Alex Lefkowitz
Justin Leitner
Yefim Lenderman
Samuel Lenhardt
Bob Lester
Gladys M. Letcher
Erna Lettl
Cobi J. Levin
Michael S. Levine
Colleen R. Lewis
David M. Lewis
Sara Lewis
Scott A. Lewis
Jacob Lichtenstein
Constance E. Lieber
Samuel A. Lieber
Stephen A. Lieber
Darren Liess
Jane Lipman
Thomas J. Liszka
Richard E. Little
Ronald E. Ljunggren
John (Jack) S. Logue II
Edna Lopez
Danielle M. Lorenz
Alfonsza Lorenzo-Lowe
Dan C. Lortie, Ph.D.
Chris Losh

Victor G. Lottmann
Barbara Lotz-Griffin
Dean S. Love
Betty Lou Lovejoy
Melissa (Lissy) L. Lovette
Judy Lowitz-Corbett's brother
Joanna Lowry
Ronald A. Lowy
Rachel Lufrano
Linda Luke
Maureen J. Lupu
Joyce Lustig
Shirley S. Lynne
Barbara Lyons
Matthew C. Lyons
Corby Lyons-O'Connor
Alicia A. Lytikainen
Kathleen Mabus
Noel A. Machado
Camille R. Mackey
Marissa N. MacLaughlin
Joel R. Maginley
Debra Lee Maichin
Nicholas A. Major
Roman Makuch
Marissa Malick-Klein's cousin
Robert T. Malison, M.D.
Merrill M. Manning III
Kamlesh Manocha
Raymond D. Mansueto
Philippe Marchiset
Roland Marchiset
Mary Markiewicz's sister
Kathleen A. Marnock
Michael (Mike) J. Maroon, Jr.
Luis Marrero
Aaron Marriott
James Martin
Nicolás Martinez
Elizabeth Martino
Jean L. Mason
Edward Mathieux
Michael D. Mattoon
Thomas Matye
Travis Matye
John K. Maxwell, Jr.
Frank Maynard
Ryan T. Mayrath
Kevin P. McAward
Timothy P. McBride
Kevin M. McChurch
Michael P. McClain
Bob McClean
Skye McCole-Bartusiak

Memorial Tributes (continued)

Jonathan D. McConnell
Esther (Bonny) E. McCormick
Christianne McCrea
Mr. McDonald
Bruce S. McEwen, Ph.D.
Sean McGarvey
James E. McGee
David McGibbon, Jr.
Patrick J. McGinty
Brian McGlenn
Kathleen (Kathy) E. McGowan
Ryan McGraw
Bridget McGrory
Marjorie A. McHarg
Kathleen McKinney
Janie A. McManus
Jim McNamara
Gina McNulty
Marie Meaders
Victor P. Medellin-Sterling
Melanie
Kumiko Melton
Tina M. Menard
Jeffrey M. Mercer
Abigale O. Merrifield
Dan Messier
Andrew Metzger
Jacob W. Meyer
Daniel Michaels
Apphia Michelich
Ronald Michelich
Christopher F. Miehlisch
Mike
Lori A. Miller
Lori Miller-Levine
Dr. Vera E. Milz
Faith Minnen
Samuel H. Mintz-Straus
Keith Mirailh
Duncan N. Mitchell
Kyle J. Mitchell
Linda Mitchell
Betty May Miyagawa
Linda M. Mogish
Neil Molberger
Gregory A. Monk
Raymond J. Monnot
Juan (Joji) Maniquis Montelibano
Jeffrey D. Moon
Maria de Luz (Lulu) Moore
Laura M. Moreau
Milliree Morgan
Emma E. Morgenstern-Greenwood
Nicholas R. Morroney III
Alessandra (Allie) Moscardon-Stevens
Richard D. Moszkowski
Patrick R. Muldoon
Ronald P. Mullan
Ronald (Ronnie) Mullan
Joel Mullins' niece
Andrew (Andy) L. Munson
Wyatt L. Murchison
Judith L. Murnan
Jane A. Myrick-McMillan
Seshavalli Nagavarapu
Marjorie Nagle
Rebekah Nahai
The Nameless
Sarah B. Nanyes
Adam Neely
Connor D. Neely
Barry J. Nelson
Carol A. Nelson's mother and brother
Joel Nelson
Jonathan Nelson
Paul Nelson
Priscilla Nelson
Tamer Nemri's sister
Dean A. Neubek
Kirk D. Newell
Rick Nicholson
Nickolaus
Rana F. Nicley
Mengchen Nie
Carol R. Nielsen
Amanda Dianne Nolan
Julianne N. Oberlin
Incigul R. O'Brien
Patrick J. O'Day-McCune
Sean M. O'Hara
Jesse E. Ohlin
Hans C. Olisa
Kerry Evan Shreve Olivier
John Olsen
Isinsu Onaran
Ross K. Oparowski
Cameron R. Orr
Chloe R. Ostema
Brian Pacheco's friend
Rosa Y. Padilla-Seville
John B. Paff
Albert L. Pan
Dr. Gavin Pape
Stephen M. Pappas
Josiah E. Parker III
Nicholas (Nick) A. Parks
Sureka H. Parmar
Krys Parrinello
Silas Parry
Bonnie Pasfield
Michael (Mike) R. Paskov
Edward (Eddie) R. Pasquale, Jr.
Alexander V. Patenaude
Louis Patko
Charles (Charlie) M. Patten
Barbara Patton
James (Jim) A. Paulis
Dr. Michael B. Pearlman
Dr. Arthur Peck
Peggy
Mary K. Pennington
Alison Perez
Patricia A. Perrino
David J. Persik
Gregory S. Persik
Daniel L. Peterson
Linda G. Peterson
Paul C. Peterson
Todd A. Petriscak
Elaine Pevzner
Parker E. Phillips II
Sybil Pierce
Jessica A. Piesman
Beatrice Pike
Shawn Pitts
Leonia Pizzo
Evan Poole
David Pordy
Ann Porter
Faye Porterfield
Catherine (Cathy) D. Potter
Nicholas M. Pouh
Pavel Pourmal
Landen Powell
Suraj Pradhan's sister who passed away
five years ago
Trisha A. Prante
Veeva S. Presnell
Noosh Prljaca's loved one
Leighanne Pryor-Reynolds' loved one
Rehmat A. Qadir
Dylan Quast
Ramez E. Qureshi
Arthur J. Radin, C.P.A.
Ed Rafferty's mother
Evelyn R. Rafferty
Lisa M. Raimondo-Nowell
Sidharth Ramakrishnan
Robert (Bob) J. Rand
Michael Rangel
Anthony F. Rankin

Memorial Tributes (continued)

Margaret (Peg) Ransom
Sam Raskin
Stephen Rather
Cassandra (Cassie) N. Ray
Dr. Jacob P. Rayapati
Anthony M. Razziano
John Reason
Brian E. Reese
Lester F. Reid
Steven (Stevie) R. Reid II
Mira C. Remien
Samuel (Sam) D. Rendall
Michael Reschke
Chris Reuter
Maria de los Angeles Rey
Ernie Rhamstine
Daniel Ricciardi
Edward A. Richards
Peter S. Richardson
Caasi A. Rich-Vogel
William L. Ricketts
Dorrit L. Rippchen
Stephen L. Ritter II
Stephen L. Ritter III
Janet K. Ritterling
Maria Rivera
Jennifer, RN
Jonathon J. Robbins
Robert Robbins
Trandl Robbins
Sara E. Roberts
John Robina
Harold H. Rogovin
Wyatt Romines
Charlie Romney
Brian Rorick
Tommy Rorick
Ira Rose
Mary Rose
Sylvia Rose
Anita Rosensweet
Alan G. Ross
Raquel Ross
Christina Rossi
Alice Rothman
Matthew S. Rothman
Donald J. Rully
Madeline (Maddie) A. Ruocco
Dr. Csorba J. Rupp-Etelka
Fred (Freddie) W. Rutledge II
David Ryan
John G. Ryan
Mark P. Ryan
Thomas J. Ryan, Jr.
Ryan
Matthew Saadidin
Domenico Sacco
Gregory E. Sacco
David E. Sainer-Frederick
Marcia M. Salazar
Martin Salazar-Vasquez
Richard P. Salow
Jennifer A. Salvito
Catherine Sanacora
Carol Sanchez
August Sancis
Mary Sandoval-Rome
Sarah
Melissa L. Saunders
Beulah A. Saxon
Matthew T. Say
Lisa M. Sbragia
Charlie Scheid
Wendy L. Schenck
Scott W. Scheurer
Siegfried Schmidt-Gengenbach
Steven Schoolman
Lee R. Schoolmeesters
Fritz T. Schulte
Ellen Schusterman
Michael L. Schwartz
Richard O. Schwartz
Kevin P. Scollard
Anna Marie Sears
Charles L. Sejud
Andrew Sellers
Paz Selo
Werner A. Selo
Timothy B. Sennott
Teresa Serralta
Eddy Kwok-Hin Seto
Craig Sevcik
Gary S. Sevitsky
Karen Seykora
Skyler Emmanuel J. Shaffer
Robert Shapiro
Megan L. Sharp
Sam Sharp
John Sheehan
Edwin N. Sherr
Harriet Shetler
Sylvia Shick
Shreya Shivathirthan
John A. Shively
Bernard Shyffer
David R. Sicular
Rebecca A. Sikora
Lucas R. Silvasi
Benjamin L. Silver
Eugene Simek
Kevin Simms
Dennis N. Simon
James (Jim) A. Simone
Marcia Simon-Kaplan
Ronald L. Sindt
Jeff Singer
Jacob E. Skoglund
Robert Slater
Earl Slusky
Alyssa Smith's loved one, Ali
Charles F. Smith
Edmund Smith
Edward J. Smith
Rain Smith
William H. Smith II
Patrick C. Snavely
Donald E. Snyder
Chris E. Sorensen
Kelly L. Sorensen
Nathan A. Soukup
James J. Sowinski
Susan K. Soyka
Mary Sparks-Wooten
Jeffrey T. Sramek
Doretha St. Clair
Samuel R. Stack
Ian J. Stancato
Brian A. Stapleton
John (Jack) A. Stapleton
Robin Starks
Joyce D. Stave
Brandon T. Steimel
Susan S. Stein
Hildegard Steinbeck
Edward G. Steinmetz, Jr.
Cindy Stenkamp
Robert Stephens
Steve
Dan Stockwell
Gary (Piedra) B. Stone
William J. Stone
Dr. Marvin E. Strauss
Michael Stromberg
Mary J. Strub-Caulkins
Daniel Stubbemann
Gregory R. Stubblefield
Marilyn Stucky's sister
Kenneth E. Stutzman
Peter A. R. Suchanick
Ezra S. Sugar

Memorial Tributes (continued)

Brendan M. Sullivan
Daniel Sullivan
Donald Swanson
Regina (Jean) G. Sweeney-Heck
Robert Swiss
David M. Swoboda
Ernest Szeto
John Szklany
Martin P. Szuba, M.D.
Andrew Taddy
Rev. Joseph A. Talley
H. Vonn Taylor
Gerald (Jerry) P. Tchir
Benjamin Telushkin
Joseph F. Tepedino
Alberta L. Thien
D. Thomas' mother
Camilla (Cammie) L. Thompson
Nicholas Tindall
Dr. Richard D. Todd
Gordon Tomalty
Carlos M. Torres
Luca G. Tortorelli
Leanne Townsend
Dr. Eugene Trachtman
Tracy
Frances S. Trager
Morris Trager
Jonathan Tremblay
Clarence (Bud) Trombly
Richard Trommer
Troy
Paul A. Truman
Robert P. Truman
Gregory L. Trump
Donald Trybula
Amanda Tucci
Robert D. Uhl
Martin O. Ulan
Christian M. Unger
Logan Upton
Barbara Van Hasselt-Cottle
Steven Van Lew
Joshua J. Van Wagoner
Preston R. Vanderhaeghe
Stephen Vardzik
Charles Varkoly
Kirstin Vasauskas
David Veillette
Joseph (Joe) A. Viau
Keith A. Vinskofski
Filomena Vitiello
Gregory Von Burg
Paul Von Burg
Robert S. Vreeland
William F. Wagner, Jr.
Sara Walker
Steven D. Walker
Emma Walker-Rauch
Robert I. Wallace
Don Walsh
Sharon Wang
Lowery (Bear) Ware
Kenneth R. Warning
Robert S. Warshaw, Esq.
Edward Watel
Dennis D. Way
Vivian (Viv) Jean Weiss
James C. Welbourne
Bobby M. Wells
Donna L. Welty
Thomas J. Wendt
Bradley Wessen
Heidi A. Westhoven
Beatrice Whalin
Thomas C. Whisler
Robert D. White
Timothy L. Whitmer
John A. Wiederkehr II
Michael G. Wieman
Kyle Jay (K.J.) Williams
Mark Williams
Moses A. Williams
Leatha Williams-Martin
Marjorie Wills
Sherre Wilner
Kimberly A. Wilson
Peter B. Wilson
Stephen J. Wilson
Timothy (Timo) Wilson
Betty J. Winberg
Dylan Winfrey
Jason P. Wischmeyer
Douglas Wistner
Richard (Richie) C. Wojcicki
Clare E. Wojtusik
Cheryl E. Wolfe
June Wolfe
Farrell J. Wolfson
Alan H. Woodard
Adam Wright
April A. Yahiro
Barbara A. Yahr
Elliot B. Yasmer
Michael Yelenosky
Martha Yerina
Genevieve (Gene) Young
Robert Zacharczuk
Shervin Zahedi
Cynthia Zajackowski
Anna Zarski
Peter W. Zartman
Nina Zatz
Gregory Zazula
Joshua Zdanowitz
Angelo Zelandi
Tyler Zgombic
S. Zhao
Edward N. Ziegler
Gladys P. Ziegler
Barry L. Zimmerman
Marilyn Zitar
Herman A. Zullow

Broadening Public Awareness & Connecting on Social Media

BBRF works to increase awareness about mental health and to provide the general public with information about the impact of research, including the development of new and better psychiatric treatments. We maintain a strong social media presence in order to communicate and engage with people around the world.



353K Followers
355K Likes



8,856 Followers



3,628 Followers



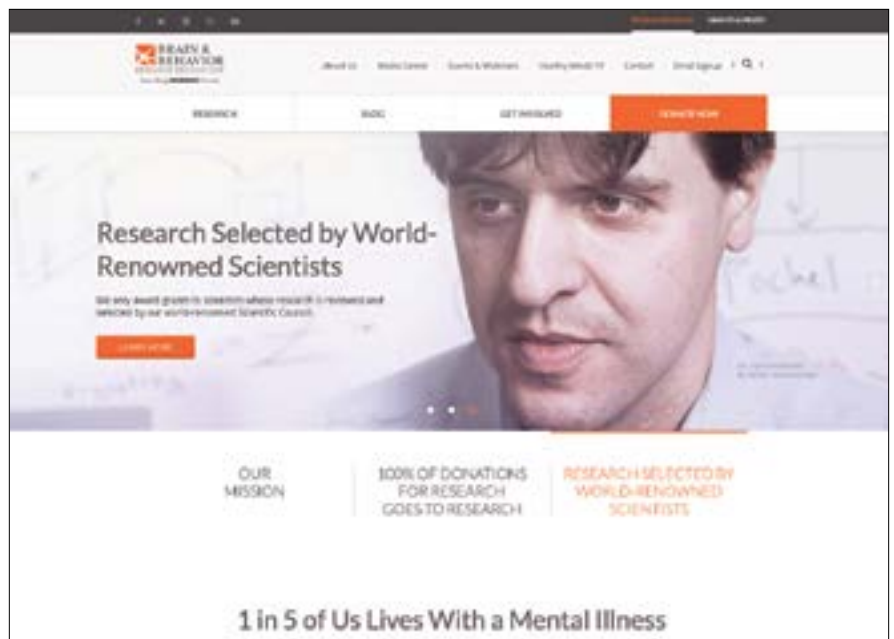
11,142 Subscribers
978K Views
50K Hours watched in 2020



13,796 Company Page Followers
2,765 Group Members

BBRF Website

In 2020 more than 1.2M people visited the BBRF website.



BY THE NUMBERS SINCE 1987

As of May 2021

AWARDED TO SCIENTISTS



\$418 + MILLION

GRANTS

6,000+

The breakdown of our grants since 1987

- 4,832 Young Investigators
- 828 Independent Investigators
- 426 Distinguished Investigators



UNIVERSITIES & MEDICAL CENTERS

569

COUNTRIES, INCLUDING THE U.S.

36

180 ACTIVE SCIENTIFIC COUNCIL MEMBERS (AND 18 EMERITUS MEMBERS)

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

The group includes:

- 51 Members of the National Academy of Medicine
- 32 Chairs of Psychiatry & Neuroscience Departments
- 16 National Institute of Health Chiefs & Directors
- 10 Members of the National Academy of Sciences
- 3 Recipients of the National Medal of Science
- 2 Former Directors of the National Institute of Mental Health and the current Director
- 1 Nobel Prize Winner

Financial Summary*

Consolidated Statement of Financial Position

	DECEMBER 31, 2020	DECEMBER 31, 2019
ASSETS		
Cash and cash equivalents	\$19,030,200	\$8,063,589
Investments, at fair value, current portion	14,009,510	10,850,004
Contributions receivable	121,723	139,805
Pledges receivable, current portion	210,000	2,210,000
Prepaid expenses and other assets	85,114	72,644
Total Current Assets	33,456,547	21,336,042
Assets held in charitable remainder trust	1,762,985	1,500,421
Fixed assets, net	18,376	25,053
Pledges receivable, net, less current portion	390,015	6,263,110
Investments, at fair value, less current portion	8,947,449	8,947,449
Total Assets	\$44,575,372	\$38,072,075
LIABILITIES AND NET ASSETS		
Liabilities		
Accounts payable and accrued expenses	\$96,430	\$79,548
Grants payable	25,723,635	19,481,669
Accrued compensation	37,651	100,258
Annuities payable	871,385	767,679
Charitable gift annuities payable	159,481	172,450
Total Liabilities	26,888,582	20,601,604
Net Assets		
Net assets without donor restrictions	8,075,882	8,410,779
Net assets with donor restrictions	9,610,908	9,059,692
Total Net Assets	17,686,790	17,470,471
Total Liabilities and Net Assets	\$44,575,372	\$38,072,075

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

Consolidated Statement of Activities

	YEAR ENDED DECEMBER 31, 2020	YEAR ENDED DECEMBER 31, 2019
SUPPORT AND REVENUE		
Contributions	\$13,994,067	\$16,069,353
Special events, net	—	345,041
Contribution of services	2,182,688	1,977,786
Bequests	5,369,469	9,206,115
Net realized and unrealized gains on investments	3,381,571	3,668,483
Net appreciation of assets held in charitable remainder trusts	262,564	212,598
Dividend and interest income	242,860	239,655
Total Support and Revenue	25,433,219	31,719,031
EXPENSES		
Program Services		
Research grants and awards	18,628,508	14,797,331
Scientific advancement	2,192,755	2,268,335
Program support	2,101,324	2,487,570
Total Program Services	22,922,587	19,553,236
Supporting Services		
Fundraising**	793,114	889,015
Administration**	1,501,199	1,677,204
Total Supporting Services	2,294,313	2,566,219
Total Expenses	25,216,900	22,119,455
Change in Net Assets	216,319	9,599,576
Net Assets, beginning of year	17,470,471	7,870,895
Net Assets, end of year	\$17,686,790	\$17,470,471

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



Awarding **NARSAD** Grants

747 Third Avenue, 33rd Floor
New York, NY 10017

646.681.4888 | 800.829.8289
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bbrfoundation.org

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