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.
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

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.

100% of every dollar donated for research goes to research.
Our operating expenses are covered by separate foundation grants.
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/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

www.bbrfoundation.org

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.

Innovative scientists. Novel ideas. Cutting edge research.
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.


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 Scientific Council

180 Scientific Council Members (18 Emeritus)
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

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Ming T. Tsuang, M.D., Ph.D., D.Sc.
Jim van Os, M.D., Ph.D., MRCPsych
Mark von Zastrow, M.D., Ph.D.
Our New Scientific Council Members

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

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

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

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

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
NEXT-GENERATION THERAPIES: Anxiety Disorders
Inhibiting the Threat Response in the Presence of a “Safety” Signal

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

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.

**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*

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.

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**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*

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.

Schahram Akbarian, M.D., Ph.D.
*Icahn School of Medicine at Mount Sinai*

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This content is provided by BBRF and does not necessarily reflect the views of the National Institute of Mental Health or the U.S. Department of Health and Human Services.
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.


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

M. Camille Hoffman, M.D.
University of Colorado Denver
School of Medicine
2015 BBRF Baer Prize
Journal of Psychiatric Research, May 2020

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.
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; 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.

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 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.

**ADDITION / SUBSTANCE-USE DISORDERS**

Aaron Bornstein, Ph.D.  
[Basic Research]

Suheyla Cetin Karayumak, Ph.D.  
[Basic Research]

Ana Covelo, Ph.D.  
[Basic Research]

Giordano de Guglielmo, Ph.D.  
[Basic Research]

Lauren DePoy, Ph.D.  
[Basic Research]

Atsushi Fujimoto, M.D., Ph.D.  
[Basic Research]

Gil Hoftman, M.D., Ph.D.  
[Basic Research]

Emma Johnson, Ph.D.  
[Basic Research]

Anne Marije Kaag, Ph.D.  
[Basic Research]

Budhachandra Khundrakpam, Ph.D.  
[Basic Research]

Sophie Laguesse, Ph.D.  
[Basic Research]

David Lydon, Ph.D.  
[Basic Research]

Rajtarun Madangopal, Ph.D.  
[Basic Research]

Zayra Millan, Ph.D.  
[Basic Research]

Ali Mohebi, Ph.D.  
[Basic Research]

Takashi Sato, Ph.D.  
[Basic Research]

Jennifer Tuscher, Ph.D.  
[Basic Research]

Marco Venniro, Ph.D.  
[Basic Research]

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

Vincent Breton-Provencher, Ph.D.  
[Basic Research]

Jessica Dennis, Ph.D.  
[Basic Research]

Shulamite Green, Ph.D.  
[Next-Generation Therapies]

Simone Haller, Ph.D.  
[Basic Research]

Henry Hallock, Ph.D.  
[Basic Research]

Ansel Hillmer, Ph.D.  
[Basic Research]

Douglas Leffa, M.D., Ph.D.  
[Next-Generation Therapies]

Behrang Mahjani, Ph.D.  
[Basic Research]

Anna-Sophie Rommel, Ph.D.  
[Diagnostic Tools/Early Intervention]

Diego Rovaris, Ph.D.  
[Basic Research]

Takashi Sato, Ph.D.  
[Basic Research]

**ANXIETY DISORDERS**

Matthew Albaugh, Ph.D.  
[Basic Research]

Christoph Anacker, Ph.D.  
[Basic Research]

Karmel Choi, Ph.D.  
[Diagnostic Tools/Early Intervention]

Hong-yuan Chu, Ph.D.  
[Basic Research]

Brian Corbett, Ph.D.  
[Basic Research]

Giannina Descalzi, Ph.D.  
[Basic Research]

Christian Ebbesen, Ph.D.  
[Basic Research]

Janos Fuzik, Ph.D.  
[Basic Research]

Kirsten Gilbert, Ph.D.  
[Basic Research]

Shulamite Green, Ph.D.  
[Next-Generation Therapies]

Simone Haller, Ph.D.  
[Basic Research]

Keith Hengen, Ph.D.  
[Basic Research]

Kathryn Humphreys, Ph.D.  
[Basic Research]

Jing Jiang, Ph.D.  
[Basic Research]

Jonathan Kao, Ph.D.  
[Basic Research]

Florence Kermen, Ph.D.  
[Basic Research]

Erica Korb, Ph.D.  
[Basic Research]

Andrew Lee, M.D., Ph.D.  
[Basic Research]

Jonathan Levy, Ph.D.  
[Basic Research]

Behrang Mahjani, Ph.D.  
[Basic Research]

Sarah Moore, Ph.D.  
[Basic Research]

Carole Morel, Ph.D.  
[Basic Research]

Megan Mueller, Ph.D.  
[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 Tejeda, 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 Ebbesen, 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**

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**

Lu Sun, Ph.D.  
**Basic Research**

Summer Thyme, Ph.D.  
**Basic Research**

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

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 Ebbesen, 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**

Pragathi Priyadharsini Balasubramani, Ph.D.  
**Diagnostic Tools/Early Intervention**

Robin Cash, Ph.D.  
**Next-Generation Therapies**

Flurin Cathomas, M.D.  
**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
Azhara 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
Coco Chu, Ph.D.  Microbes and Microglia
Neir Eshel, M.D., Ph.D.  Aggression
Daniel Fuerth, Ph.D.  Molecular Basis of Memory
Andrea Gomez, Ph.D.  Alternative Splicing and Synapses
James Heys, Ph.D.  Temporal Encoding
Jing Ren, Ph.D.  Serotonin System
Katlin Silm, Ph.D.  Dopamine Regulation
Hansem Sohn, Ph.D.  Cognitive Control

ALL DISORDERS
(These projects pertain broadly to all disorders)
Min Jee Jang, Ph.D.  Genetic Screening
Pietro Giuseppe Mazzara, Ph.D.  Cell Reprogramming
Karly Murphy, M.D.  Stigma
Donna Werling, Ph.D.  Gender Differences

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 Superieure 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 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
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.

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.

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.

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.”
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 outside of my group. The approaches developed with BBRF support have also 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
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
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**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-RACKIC 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-RACKIC 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.

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._

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<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>January 14, 2020</td>
<td>Using Tools of Neuroscience to Make Personalized Care a Reality in Schizophrenia</td>
<td>Gregory A. Light, Ph.D.</td>
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<tr>
<td>February 11, 2020</td>
<td>How Drug Dependence Impacts Decision Making</td>
<td>Christina Gremel, Ph.D.</td>
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<td>March 10, 2020</td>
<td>Brain and Behavior Based Strategies in the Treatment of OCD</td>
<td>Christopher Pittenger, M.D., Ph.D.</td>
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<td>April 14, 2020</td>
<td>Can Traumatic Memories Be Erased?</td>
<td>Stephen Maren, Ph.D.</td>
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<td>May 12, 2020</td>
<td>Using Neuroscience to Evaluate and Guide Treatment for Pediatric Mood Disorders</td>
<td>Manpreet Kaur Singh, M.D., M.S.</td>
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<td>June 9, 2020</td>
<td>The Science of Parenting and Parent-Based Treatment for Childhood Anxiety Disorders</td>
<td>Eli R. Lebowitz, Ph.D.</td>
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<td>July 14, 2020</td>
<td>Widely Prescribed Stimulants and the Risk of Psychosis in Young People with ADHD</td>
<td>Lauren Moran, M.D.</td>
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<td>September 8, 2020</td>
<td>Assessing and Managing Adolescent Suicidal Behavior: New Approaches</td>
<td>David A. Brent, M.D.</td>
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<td>October 13, 2020</td>
<td>Why Did I Eat That? Obesity and the Neuroscience of Food Craving</td>
<td>Carrie Ferrario, Ph.D.</td>
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<tr>
<td>November 10, 2020</td>
<td>Not Feeling It: Adolescent Depression and Reward Processing Gone Awry</td>
<td>Erika E. Forbes, Ph.D.</td>
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<tr>
<td>December 8, 2020</td>
<td>Using Genetic Maps of the Brain to Understand Autism &amp; Related Psychiatric Illnesses</td>
<td>Daniel Geschwind, M.D., Ph.D.</td>
</tr>
</tbody>
</table>
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.

“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
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.
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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Jan Abrams Investigators

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

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

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Young Investigator
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University of Pennsylvania

ANONYMOUS

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

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

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Research Foundation for Mental Hygiene, Inc./NYSPI Columbia University

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Van Andel Research Institute

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Vanderbilt University

ANONYMOUS
The Quincy Ells Fund Investigator

Young Investigator
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University of California, Davis Medical Center

ESSEL FOUNDATION
Essel Investigators

Young Investigator
Wesley Brian Asher, Ph.D.
Research Foundation for Mental Hygiene, Inc./NYSPI Columbia University

Independent Investigator
Wen-Jun Gao, M.D., Ph.D.
Drexel University College of Medicine

Young Investigator
Santhosh Girirajan, M.B.B.S., Ph.D.
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Young Investigator
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University of Edinburgh

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Jacqueline Morris, Ph.D.
University of Pennsylvania

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Chinese University of Hong Kong, Hong Kong

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New York University

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Medical University of South Carolina

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Danella Hafeman, M.D., Ph.D.
University of Pittsburgh

Young Investigator
Jessica M. Lipschitz, Ph.D.
Brigham and Women's Hospital
Harvard University
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Steven, Sally and Isabel Grimes Investigators

<table>
<thead>
<tr>
<th>Young Investigator</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juliet B. Edgcomb, M.D., Ph.D.</td>
<td>University of California, Los Angeles</td>
</tr>
<tr>
<td>Niamh A. Mullins, Ph.D.</td>
<td>Icahn School of Medicine at Mount Sinai</td>
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**JOHN KENNEDY HARRISON**  
John Kennedy Harrison Investigator

<table>
<thead>
<tr>
<th>Young Investigator</th>
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<tbody>
<tr>
<td>Chung Sub Kim, Ph.D.</td>
<td>University of Texas at Austin</td>
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**ANONYMOUS**  
Havens Family Investigators

<table>
<thead>
<tr>
<th>Young Investigator</th>
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<tbody>
<tr>
<td>Tim Bernard Bigdeli, Ph.D.</td>
<td>State University of New York, Downstate</td>
</tr>
<tr>
<td>Anastasia Bobilev, Ph.D.</td>
<td>University of Texas Southwestern Medical Center at Dallas</td>
</tr>
<tr>
<td>Kristen Delevich, Ph.D.</td>
<td>University of California, Berkeley</td>
</tr>
<tr>
<td>Tae-Yeon Eom, Ph.D.</td>
<td>St. Jude Children’s Research Hospital</td>
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<tr>
<td>Antonio Fernandez-Ruiz, Ph.D.</td>
<td>New York University</td>
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<tr>
<td>Michael Matthew Francis, M.D.</td>
<td>Indiana University School of Medicine</td>
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<tr>
<td>Marie Elizabeth Gaine, Ph.D.</td>
<td>University of Iowa</td>
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<tr>
<td>Vanessa F. Gonçalves, Ph.D.</td>
<td>Centre for Addiction and Mental Health University of Toronto</td>
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**THE RONA JAFFE FOUNDATION**  
The Rona Jaffe Foundation Investigator

<table>
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<tbody>
<tr>
<td>Jodi Jay Weinstein, M.D.</td>
<td>The Research Foundation for the State University of New York, Stony Brook University</td>
</tr>
<tr>
<td>Zachary Patrick Wills, Ph.D.</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Liuqing Yang, Ph.D.</td>
<td>Johns Hopkins University</td>
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**MIRIAM KATOWITZ**  
Katowitz Investigator

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<tr>
<td>Frederick Charles Nucifora, Ph.D., D.O., M.H.S.</td>
<td>Johns Hopkins University School of Medicine / Johns Hopkins University</td>
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**LAKESIDE INDUSTRIES/LEE FAMILY**  
Jeanne Marie Lee Investigators

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<tr>
<td>Annie Kathuria, Ph.D.</td>
<td>Massachusetts General Hospital Harvard University</td>
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<tr>
<td>Madeleine Kyrke-Smith, Ph.D.</td>
<td>University of Utah</td>
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**CAROLE AND MARVIN LEICHTUNG**  
Leichtung Family Investigators

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<th>Young Investigator</th>
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<tbody>
<tr>
<td>Michael Ben Clark, Ph.D.</td>
<td>University of Melbourne</td>
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<tr>
<td>Ruchi Malik, Ph.D.</td>
<td>University of California, San Francisco The J. David Gladstone Institutes</td>
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<tr>
<td>David A. Matuskey, M.D.</td>
<td>Yale University</td>
</tr>
<tr>
<td>Tomasz J. Nowakowski, Ph.D.</td>
<td>University of California, San Francisco The J. David Gladstone Institutes</td>
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<tr>
<td>Neville Espi Sanjana, Ph.D.</td>
<td>New York Genome Center</td>
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<tr>
<td>Simon Thomas Schafer, Ph.D.</td>
<td>Salk Institute for Biological Studies</td>
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<tr>
<td>Kai Yu, Ph.D.</td>
<td>Cold Spring Harbor Laboratory</td>
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Maltz Investigators

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<tr>
<td>Antti S. Alaräisänen, M.D.</td>
<td>University of Oulu</td>
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Young Investigator
**Stefan Ehrlich, M.D.**
Dresden University of Technology

Young Investigator
**Herman B. Fernandes, Ph.D.**
Northwestern University

Young Investigator
**George Foussias, M.D., Ph.D.**
Centre for Addiction and Mental Health
University of Toronto

Young Investigator
**Jason Karl Johannesen, Ph.D.**
Yale University

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Yale University

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Utrecht University

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Young Investigator
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King's College London

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Young Investigator
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University of California, Los Angeles

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**Yuen Siang Ang, Ph.D.**
McLean Hospital Harvard University

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**Jeremy Stanford Biane, Ph.D.**
University of California, San Francisco
The J. David Gladstone Institutes

Young Investigator
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University of New South Wales

Young Investigator
**Flurin Cathomas, M.D.**
Icahn School of Medicine at Mount Sinai

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University of Texas Southwestern Medical Center at Dallas

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Virginia Commonwealth University

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Massachusetts Institute of Technology

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Weill Cornell Medical College

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Children's Hospital of Philadelphia
University of Pennsylvania

Young Investigator
**Natalia Duque-Wilckens, D.V.M, Ph.D.**
Michigan State University

Young Investigator
**Roman Dvorkin, Ph.D.**
Cold Spring Harbor Laboratory

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**Jennifer Buenzel Dwyer, M.D., Ph.D.**
Yale University

Young Investigator
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Emory University

Young Investigator
**Manoela V. Fogaça, Ph.D.**
Yale University

Young Investigator
**Janos Fuzik, Ph.D.**
Karolinska Institute

Young Investigator
**Fabiano A. Gomes, M.D., Ph.D.**
Queen's University

Young Investigator
**Ronald Gerardo Garcia Gomez, M.D., Ph.D.**
Massachusetts General Hospital
Harvard University

Young Investigator
**Adam Gorka, Ph.D.**
National Institute of Mental Health (NIMH/NIH)

Young Investigator
**Brendan Deegan Hare, Ph.D.**
Yale University School of Medicine
Yale University

Young Investigator
**Kathryn M. Harper, Ph.D.**
University of North Carolina at Chapel Hill
Research Partners Program

Young Investigator
Frankie D. Heyward, Ph.D.
Beth Israel Deaconess Medical Center
Harvard University

Young Investigator
David Mark Howard, Ph.D.
University of Edinburgh

Young Investigator
Orna Issler, Ph.D.
Icahn School of Medicine at Mount Sinai

Young Investigator
Bashkim Kadiu, M.D.
National Institute of Mental Health (NIMH/NIH)

Young Investigator
Jonathan C. Kao, Ph.D.
University of California, Los Angeles

Young Investigator
Hee-Dae Kim, Ph.D.
University of Arizona

Young Investigator
Janine Knauer-Arloth, Ph.D.
Max Planck Institute of Psychiatry
Max Planck Society/Max Planck Institutes

Young Investigator
Kate Ryan Kuhlman, Ph.D.
University of California, Irvine

Young Investigator
Andrew Moses Lee, M.D., Ph.D.
University of California, San Francisco
The J. David Gladstone Institutes

Young Investigator
Daniel F. Levey, Ph.D.
Yale University

Young Investigator
Laura Lewis, Ph.D.
Boston University

Young Investigator
Yi Lu, Ph.D.
Karolinska Institute

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Elizabeth K. Lucas, Ph.D.
North Carolina State University

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Angela M. Mabb, Ph.D.
Georgia State University

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The University of Stellenbosch

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Andrew H. Miller, M.D.
Emory University

Young Investigator
Massimiliano Orri, Ph.D.
McGill University

Young Investigator
Carmine Maria Pariante, M.D., Ph.D., FRCPsych
Institute of Psychiatry/King's College London

Young Investigator
Roseann Elizabeth Peterson, Ph.D.
Virginia Commonwealth University

Young Investigator
Marco Pignatelli, M.D.
National Institute on Drug Abuse (NIDA/NIH)

Young Investigator
Santosh Pothula, Ph.D.
Yale University School of Medicine
Yale University

Young Investigator
Arjun Ramakrishnan, Ph.D.
University of Pennsylvania

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Natali Lujan Chanaday Ricagni, Ph.D.
Vanderbilt University

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Matthew James Robson, Ph.D.
University of Cincinnati

Young Investigator
Robb Brooks Rutledge, Ph.D.
University College London
University of London

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

Young Investigator
Gijsje J.L.J. Snijders, M.D.
University Medical Center Utrecht
Utrecht University

Young Investigator
Surjo Raphael Soekadar, M.D.
University of Tuebingen

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Kanizo Suzuki, Ph.D.
Vanderbilt University

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Chrystal Vergara-Lopez, Ph.D.
The Miriam Hospital
Brown University

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Christian Anthony Webb, Ph.D.
McLean Hospital Harvard University

Young Investigator
Christian Wozny, M.D., Ph.D.
University of Strathclyde

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Stanford University

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Yale University

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Steven Pardes Investigator

Distinguished Investigator
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Columbia University

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The Pfeil Foundation Investigators

Young Investigator
George Arthur Buzzell, Ph.D.
University of Maryland

Young Investigator
Bharathi Gadad, Ph.D.
Texas Tech University Health Sciences Center

Young Investigator
Munir Gunes Kutlu, Ph.D.
Vanderbilt University
Research Partners Program

**Young Investigator**
- **Merry Pullollickal Mani, Ph.D.**
  University of Iowa

**Young Investigator**
- **Kieran J. O’Donnell, Ph.D.**
  Douglas Mental Health University Institute

**Young Investigator**
- **Lindsay A. Schwarz, Ph.D.**
  St. Jude Children’s Research Hospital

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- **Thomas Papouin, Ph.D.**
  Washington University School of Medicine

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**VirginiA silver**
- Silver Investigator

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- John and Polly Sparks Foundation Investigators

**Independent Investigator**
- **Gabriel S. Dichter, Ph.D.**
  University of North Carolina at Chapel Hill

**Shear Investigators**
- **Jennifer Katherine Forsyth, Ph.D.**
  University of California, Los Angeles

**Young Investigator**
- **Simon Chamberland, Ph.D.**
  New York University

**Young Investigator**
- **Kun Yang, Ph.D.**
  Johns Hopkins University School of Medicine/Johns Hopkins University

**Young Investigator**
- **José Oliveira, M.D., Ph.D.**
  Fundação Champalimaud

**Young Investigator**
- **Behrang Mahjani, Ph.D.**
  Icahn School of Medicine at Mount Sinai

**Young Investigator**
- **Benjamin B. Scott, Ph.D.**
  Boston University

**Young Investigator**
- **Reza Tadayon-Nejad, M.D., Ph.D.**
  University of California, Los Angeles

**SCOTT-GENTLE FOUNDATION**
- Scott-Gentle Foundation Investigators

**Young Investigator**
- **Shelya Alexandra Buffington, Ph.D.**
  University of Texas Medical Branch at Galveston

**Young Investigator**
- **Katie Fracalanza, Ph.D.**
  Stanford University

**Young Investigator**
- **Kirsten Elizabeth Gilbert, Ph.D.**
  Washington University in St. Louis

**Young Investigator**
- **Keith B. Hengen, Ph.D.**
  Washington University in St. Louis

**Young Investigator**
- **Behrang Mahjani, Ph.D.**
  Icahn School of Medicine at Mount Sinai

**Young Investigator**
- **Katie Fracalanza, Ph.D.**
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– Miriam Katowitz, BBRF Board Vice President

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<table>
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<tr>
<th>Amount</th>
<th>Campaign Name</th>
<th>Organizer(s)</th>
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<td>$100,000+</td>
<td>BEHAVIOUR INTERACTIVE INC. Internet Campaign</td>
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<td>$50,000+</td>
<td>HIKE FOR MENTAL HEALTH Houston, TX</td>
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<td>10TH ANNUAL LET THE SUN SHINE RUN/WALK Cold Spring, MN</td>
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<td>$500+</td>
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<td>$10,000+</td>
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<td>WONDER + ZEST Montclair, NJ</td>
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Program
eBay Matching Gifts Program
eBay, Inc. Foundation
Eli Lilly
Eli Lilly & Company Foundation, Inc.
Eli Lilly & Company Foundation, Inc. –
Matching Gifts Program
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Exelon Corporation
Exelon Foundation
Federal Home Loan Bank of Boston
FHL Bank Boston
FHLBank
Fortis Construction, Inc.
Frank Viscigilia Foundation
Genentech Employee Giving Program
Genentech Giving Station
Goldman, Sachs & Co. Matching Gift
Program
Good Done Great
Hatteras Venture Partners
Illinois Tool Works, Inc. (ITW)
Intercontinental Exchange Matching
Gifts Program (ICE)
IP Services, Inc.
JMT Charitable Foundation
John Hancock Financial Services –
Matching Gifts Program
John Wiley & Sons, Inc.
Johnson & Johnson – Family of
Companies
JPMC
JPMorgan Chase & Co. Employee Giving
Campaign
Kronos Incorporated
LinkedIn Matching Gifts Program
Macquarie Group Foundation
MEAG New York Corporation
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Americas Region
Medtronic Global Government Affairs
Millennium Pharmaceuticals – Matching
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Network For Good
OdysseyRE Foundation
Qualcomm Matching Grant Program
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Salesforce.org – Matching Grants
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The Benevity Community Impact Fund
The Capital Group Companies Charitable Foundation
The Merck Foundation
The Progressive Insurance Foundation – Giving Station
The Quaker Hill Foundation, Inc.
The RMR Group, LLC
The UK Online Giving Foundation (UKOGF)
U.S. Bank Foundation – Employee Matching Gift Program
United Way of the Bay Area
Varadero Capital, L.P.
Verizon Foundation – Employee Matching Gifts Program
Viking Global Foundation, Inc.
Walker & Dunlop, LLC
YourCause, LLC

TRIBUTES

Honor Tributes
A Dude on Reddit
A friend's birthday
A loved one
Sonja Abates-Nelson
Sall Abdoulaye
Phyllis Ables
Dylan Abraham
Cleo Abrams-Horsburgh
Yvonne M. Achterman
Lea Ackerman
Alex Acosta
Ted Adams
Aspen Adams-Miller
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
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Matthew O. Beaudry’s friends
who didn’t make it out
BeBop
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Krista Beeman
Brandon Beigler
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Connie Bigler
Kata Bikszei
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Jack Bragen
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Nancy H. Bralick’s daughter
Tyler Tee Bramble
Warren Brand’s friends and family
that suffer
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Jessica Joy Brigante
Jeffrey Brodbeck
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Margaret F. Brown’s mother
Tommy Brown
John Brown-Lauria
Jason Brzozowski
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Drs. Kurt and Mary Edwards
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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 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
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Courtney Fitzgerald
Gregory S. Fitzgerald
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Laura and Scissors Flook
Andrew Fouk
Veronica Ariel Fowlie
Polly Kay Fox
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The Clients of Freedman Healthcare, LLC
Julie Freidus
Shea N. Friedland, M.D.
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Jerry and Cynthia Friedman
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Frontline Workers
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Beth Goetz
Jill Goldin
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Chad Goodin
Laila Gordy
Lalleh Gordy and Shab Goz
Kenneth Grams' son
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Chloe Greening
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Haiwen and Bob's Baby Shower
Halee Arlene
Kent J. Hall
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Bonnie D. Hammerschlag
Beth Handler's daughter on her 19th Birthday
Beth Handler
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Bassey Ikpi
The Impact Team, University of Iowa – Thanks for all you do!
Douglas D. Inmon
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Nicholas Katherina and his mother, father, fiancé, sisters, brother-in-law and best friend
Miriam E. Katowitz, C.P.A.
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The Levy's granddaughter on her 17th Birthday
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Bella Radosti
Ed Rafferty
Rebecca Ramsey
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Randy “The Rocket”
Thomas and Jessica Rangel
Rebellious Reddit Idiot
Kay Redfield-Jamison, Ph.D. and her
book “The Unquiet Mind”
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Dana J. Reid
Linda Reid’s granddaughter
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Kelsey Shapiro
Dewayne Shaw
Karen A. Shea
Pat Shea and her amazing artistic talents
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Rena Talaferro

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Alexandria Tamburo
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The Levy’s granddaughter, Taylor, on her 6th Birthday
Maria-Christina Taylor-East
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Joshua Thai
Christopher Thomas
Barry Thomasson
Kelsey Thompson
Jeannette Thompson-Swain
Cat Thomson
Sheila Thornton
Those fighting mental illness everyday
Jin and Kelly Timple
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Kimberly Tipton
Kristen Tizlon
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Barbara Toll
Isabella Ton
Joan Ton
Lori Tonne
Too, too many
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Maria Tosti
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Deandra Vetter
Liz Vhp
Victoria Vieira
Christian Viera
Conner Viera
Vijayaellemma
Mark Voegele
The Von Lazar Family
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Maci Ward
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Laura Zawack
Levi Zelanko
Renee S. Zenker's son
Charles Matthew Zitko

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A loved one
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John (Jed) B. Abrams
Elizabeth Adams-Addorio
Cecilia J. Adamski
Stephenson D. Adkins
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Tom Aldridge
All victims of addiction
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Jose F. Amaya
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Christian Burks
John W. Burns
Anna E. Busillo
Adrian R. Caggianelli
Michael Cahill
Patrick M. Caires
Dennis (Denny) J. Calalsrase
Susan A. Caltrider
Dr. Mark Campbell
Sara Campbell
Oscar Canavan
Evan Cantwell
Dennis J. Carlton
Jeffrey T. Carlton
Craig Carr
Carol Carrano
Kristin D. Carricarte-Nicholson
Kaitlyn Carroll
Connor E. Carr-Smith
Steven Cash
Suzanne L. Castellani
Stephen Castronovo
Michael Ceronie
Lawrence Chalfin, M.D.
Marvin L. Chambers
Marie E. Chapman
Timothy J. Chapman
Noreen Charters
Brett A. Chassay
Douglas Cherno
Henry Cheung
Thomas D. Childers
Brian A. Chiou
Colin M. Choate
Andrew S. Christie
Ann V. Christie
Daniel Chun
Keegan A. Cloud
Eric Clyburn
Michael (Mikey) Cobb
Jerry Cohen
Jesse C. Cohen
Bob Coleman
Valerie Collar
Glenda L. Collier
Kathleen (Kathy) M. Comerford
Ryan J. Cook
David Cooper-Claire
Wendell Corey
Wilson Cory
Cameron M. Cosentino
Edward (Teddy) M. Cough
Christopher M. Cowan
Peggy Crane
Brian Crawford
Janet Croft
Hillie Cuesta
Cordell P. Cull
Marsha Cullinan-Schloemer
Stacey M. Culotta
Patricia Currey
Daniel Curtin
Edward J. Daidone
Lawrence (Larry) Dalkoff
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 Friedenberg
Alan Friedman
Burton Friedman
Jason C. Frisco
Eric A. Fritts
Mark Froimowitz
Seymour and Susan Frolichstein
Christopher Furay
Tommy Fuss
George Gaennie 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 Greenwohl
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. Gumport
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 Huested, Jr.
Justin D. Hughes
Ben Hughiett
Miles P. Humbaugh
Gregory J. Humes
William (Billy) W. Humphrey
Alan N. Hundert
Dylan-David Hunter
James S. Hutto
Robert Inman
Naveed Iqball
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 Blanch
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
Glady M. Letcher
Era 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. Lytkainen
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 Mathieuex
Michael D. Mattoon
Thomas Matye
Travis Matye
John K. Maxwell, Jr.
Frank Maynard
Ryan T. Mayrath
Kevin P. McCaw
Timothy P. McBride
Kevin M. McChurch
Michael P. McClain
Bob McClean
Skye McCol-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. McIntyre
Brian McGlinn
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 Miralh
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
Wyll L. Murchison
Judith L. Murnan
Jane A. Myrick-McMillan
Sheshavalli 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. Petriscack
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

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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.
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. 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 Stubbsmann
Gregory R. Stubbsfield
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. Vinskoski
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 Zajaczkowski
Anna Zarski
Peter W. Zartman
Nina Zatz
Gregory Zazula
Joshua Zdanowitz
Angelo Zelani
Tyler Zgombic
S. Zhao
Edward N. Ziegler
Glady's P. Ziegler
Barry L. Zimmerman
Marilyn Zitar
Herman A. Zullow
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.

**BBRF Website**

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

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

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

<table>
<thead>
<tr>
<th>SUPPORT AND REVENUE</th>
<th>YEAR ENDED DECEMBER 31, 2020</th>
<th>YEAR ENDED DECEMBER 31, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions</td>
<td>$13,994,067</td>
<td>$16,069,353</td>
</tr>
<tr>
<td>Special events, net</td>
<td>—</td>
<td>345,041</td>
</tr>
<tr>
<td>Contribution of services</td>
<td>2,182,688</td>
<td>1,977,786</td>
</tr>
<tr>
<td>Bequests</td>
<td>5,369,469</td>
<td>9,206,115</td>
</tr>
<tr>
<td>Net realized and unrealized gains on investments</td>
<td>3,381,571</td>
<td>3,668,483</td>
</tr>
<tr>
<td>Net appreciation of assets held in charitable remainder trusts</td>
<td>262,564</td>
<td>212,598</td>
</tr>
<tr>
<td>Dividend and interest income</td>
<td>242,860</td>
<td>239,655</td>
</tr>
<tr>
<td><strong>Total Support and Revenue</strong></td>
<td><strong>25,433,219</strong></td>
<td><strong>31,719,031</strong></td>
</tr>
</tbody>
</table>

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

**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.**
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