Scientific Council Dinner

Presenting the
Klerman & Freedman Awards

FRIDAY, JULY 26, 2019
Metropolitan Club New York

BRAIN & BEHAVIOR
RESEARCH FOUNDATION
Awarding **NARSAD** Grants

Welcome to the Scientific Council Dinner where we will present the 2019 Klerman & Freedman Awards

The BBRF Scientific Council, led by Dr. Herbert Pardes, reviews and selects the most promising research ideas with the greatest potential to lead to further breakthroughs in brain and behaviors research. We thank them for their time, expertise, and judgement to support the mission of the Foundation.

Tonight we will recognize and honor the exceptional work of six outstanding young researchers who have received awards through the Brain & Behavior Research Foundation's Young Investigator Grant program, which supports early career scientists as they gather pilot data and "proof of concept" for their innovative clinical and basic research. The prizewinners are selected by committees of the Foundation's Scientific Council.

Following our dinner, Dr. Pardes will lead an engaging discussion on the state of research and psychiatry with select members of our Scientific Council.

The Brain & Behavior Research Foundation continues to support the most promising ideas in brain research across disciplines, institutions and continents. We hope that as you learn about the achievements of this evening's honorees they will inspire your continued support of our work toward a future in which all people living with a psychiatric condition lead full, productive, and happy lives.

Sincerely,

Jeffrey Borenstein, M.D.
President & CEO

ANNUAL KLERMAN PRIZE FOR EXCEPTIONAL CLINICAL RESEARCH

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

HONORABLE MENTIONS

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

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

ANNUAL FREEDMAN PRIZE FOR EXCEPTIONAL BASIC RESEARCH

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

HONORABLE MENTIONS

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

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

About the Prizes

The Klerman & Freedman Prizes pay tribute to Drs. Gerald L. Klerman and Daniel X. Freedman, whose legacies as researchers, teachers, physicians and administrators have indelibly influenced neuropsychiatry.

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

KLERMAN PRIZE

The Klerman Prize, established in 1994 by Myrna M. Weissman, Ph.D., in memory of her late husband, Gerald L. Klerman, M.D., honors exceptional clinical research by a BBRF Young Investigator Grantee. A distinguished psychiatric researcher and mentor at the National Institute of Mental Health (NIMH), Dr. Klerman pioneered studies of psychotropic medications and developed and tested interpersonal psychotherapy. Dr. Weissman serves on the BBRF Scientific Council.

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1995	Dr. Rajiv Tandon
1996	Dr. Hans C. Brieter
1997	Dr. Schahram Akbarian
1998	Dr. Michael Maes
1999	Dr. Andrew L. Stoll
2000	Dr. Susan K. Schultz
2001	Dr. Cameron S. Carter Dr. Josephy R. Hibbeln Dr. Sarah H. Lisanby Dr. Perry F. Renshaw
2002	Dr. E. Sherwood Brown Dr. John W. Newcomer
2003	Dr. Ramin Mojtabai
2004	Dr. Helen Link Egger Dr. Joan L. Luby
2005	Dr. Melissa P. DelBello
2006	Dr. Hilary P. Blumberg
2007	Dr. Beng-Choon Ho
2008	Dr. Gabriel Alejandro de Erausquin
2009	Dr. Alina Suris
2010	Dr. Daniel P. Dickstein Dr. Mani N. Pavuluri
2011	Dr. Chadi Calarge
2012	Dr. Jess G. Fiedorowicz
2013	Dr. James McPartland
2014	Dr. Denis Jabaudon
2015	Dr. Alan Anticevic
2016	Dr Katie McLaughlin
2017	Dr. Jennifer C. Felger
2018	Dr. Albert R. Powers III

KLERMAN Honorable Mentions

1995	Dr. Elizabeth D. Abercrombie Dr. Kim T. Mueser Dr. Jose V. Pardo
1996	Dr. Steven E. Arnold Dr. Helen S. Mayberg
1997	Dr. Andrew J. Francis Dr. Katharine A. Phillips
1998	Dr. Cameron S. Carter Dr. Mark R. Serper
1999	Dr. Shitij Kapur Dr. Brian F. O'Donnell
2000	Dr. Mark S. George Dr. Sohee Park
2002	Dr. Stephan Heckers Dr. Anissa Abi Dargham Dr. Jeffrey H. Meyer Dr. Yvette I. Sheline
2003	Dr. Catherine Monk Dr. Gerard Sanacora
2005	Dr. Anne L. Glowinski Dr. Gerard Sanacora
2006	Dr. Stephan Eliez Dr. Jordan W. Smoller
2007	Dr. Yuval Y. Neria Dr. Carolyn M. Salafia
2011	Dr. Brian M. D'Onofrio Dr. Jennifer S. Silk
2012	Dr. Johanne Renaud Dr. Manpreet Kaur Singh
2013	Dr. Daniel Mueller Dr. Andrea Danese
2014	Dr. Mazen A. Kheirbek Dr. Bo Li
2015	Dr. Chadi Abdallah Dr. Carrie J. McAdams
2016	Dr. Erin C. Dunn Dr. Avram Holmes
2017	Dr. Danai Dima Dr. Carolyn Rodriguez
2018	Dr. Timothy Y. Mariano

2019 KLERMAN PRIZEWINNER
FOR EXCEPTIONAL CLINICAL RESEARCH

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

2018 & 2016 BBRF Young Investigator

Dr. Nolan Williams is an Assistant Professor within the Department of Psychiatry and Behavioral Sciences and the Director of the Stanford Brain Stimulation Lab.

Dr. Williams has a broad background in neuropsychiatry, completing residencies in both neurology and psychiatry. He has specific training and clinical expertise in the development of brain stimulation methodologies under Dr. Mark George, who pioneered the use of Transcranial Magnetic Stimulation (TMS) for treatment-resistant depression. Dr. Williams is working to understand how TMS can be used to treat depression, OCD, Tourette's Syndrome, and other mental illnesses, especially in people who haven't responded well to other therapeutic or pharmaceutical treatments.

Themes of his work include examining the use of spaced learning theory in the application of neurostimulation techniques, development and mechanistic understanding of rapid-acting antidepressants, and identifying objective biomarkers that predict neuromodulation responses in treatment-resistant neuropsychiatric conditions.

"BBRF has been at the forefront of every major psychiatric breakthrough over the last several decades and I have been fortunate enough to be mentored by several members of the Scientific Council including Mark George, Alan Schatzberg, and Rob Malenka. Recognition by BBRF is quite humbling and I very much hope to continue to help in the development of new therapies for treatment-resistant patients in the coming years."

2019 KLERMAN PRIZE
HONORABLE MENTION

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

2016 BBRF Young Investigator

Dr. Bo Cao is an Assistant Professor in the Department of Psychiatry, Faculty of Medicine & Dentistry at the University of Alberta.

The Cao lab is developing translational tools for precise diagnosis and personalized treatment optimization for psychiatric disorders, e.g., major depressive disorders, bipolar disorders, schizophrenia, and substance misuse. His approach is to apply advanced machine learning and statistical techniques to big multi-modal data (brain imaging, genetic, biological, behavioral, cognitive and clinical measurements, and electronic health records). Dr. Cao's team goal is to apply the tools they build into an effective AI suite to enhance mental health service and improve the lives of the mentally ill.

"The BBRF Young Investigator Grant really helped me to jump-start my career in the emerging field of computational psychiatry with the hope to use my analytical skills to help patients with mental disorders. It is such a forward-looking and generous grant that makes my dream career and research come true."

2019 KLERMAN PRIZE
HONORABLE MENTION

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

2016 BBRF Young Investigator

Dr. Sarah Gray is a Clinical Psychologist and an Assistant Professor in the Department of Psychology at Tulane University, where she holds a joint appointment in the Department of Psychiatry and Behavioral Sciences.

Her research examines the developmental consequences of early life adversity, with a specific focus on intergenerational processes. The Gray lab takes a multilevel approach, integrating narrative, behavioral, and physiological measurement to understand how risk and resilience is transmitted across generations through behavioral and biological pathways, situated in relational and broader social contexts. Her Young Investigator project examined how the correspondence between mothers' and young children's stress physiology may be altered in contexts of maternal early life adversity, with potential consequences for children's biological and behavioral self-regulation and mental health risk.

"The BBRF Young Investigator award provided critical support for my research at its earliest stages. The support allowed me to collect pilot data on a novel treatment target with parents and young children, demonstrating feasibility for my ideas in a way that catalyzed a successful grant application to the National Institutes of Health."

FREEDMAN PRIZE

The Freedman Prize honors the late Daniel X. Freedman, M.D., a pioneer in biological psychiatry and psychopharmacology and a founding member of the Brain & Behavior Research Foundation Scientific Council. It is awarded to a BBRF Young Investigator Grantee for exceptional basic studies.

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FREEDMAN Prizewinners

1998	Dr. Yukiko Goto
1999	Dr. Stewart A. Anderson
2000	Dr. Edwin G. Abel
2001	Dr. Kelsey C. Martin
2002	Dr. Jon R. Backstrom
2003	Dr. Jose A. Esteban
2004	Dr. Luca Santarelli
2005	Dr. Lisa M. Monteggia
2006	Dr. Michael D. Ehlers
2007	Dr. Thomas A. Blanpied
2008	Dr. Evelyn K. Lambe
2009	Dr. Kerry J. Ressler
2010	Dr. David A. Baker
2011	Dr. Alexandre Bonnin
2012	Dr. Zhiping Pang
2013	Dr. Garret Stuber
2014	Dr. Theodore D. Satterthwaite
2015	Dr. Michael M. Halassa
2016	Dr. Kay Tye
2017	Dr. Ilana Witten
2018	Dr. Byungkook Lim

FREEDMAN Honorable Mentions

1998	Dr. Eric E. Turner Dr. Elizabeth Van Bockstaele
1999	Dr. Emmanuel N. Pothos Dr. Laurence H. Tecott
2000	Dr. Wayne Drevets Dr. Bernice E. Morrow
2001	Dr. Michael J. Caterina Dr. Aurelio A. Galli
2002	Dr. Michael W. Quick Dr. Fu-Ming Zhou
2003	Dr. William A. Carlezon Dr. Gleb P. Shumyatsky
2004	Dr. Michael D. Ehlers Dr. Sheena Ann Josselyn
2005	Dr. Steven A. Thomas Dr. Fang Liu
2006	Dr. Stewart A. Anderson Dr. Gabriella D' Arcangelo Dr. Karoly Mirnics
2007	Dr. Fang Liu Dr. Luca Santarelli
2008	Dr. M. Margarita Behrens Dr. Akira Sawa
2009	Dr. Jean-Martin Beaulieu Dr. Colleen Ann McClung
2010	Dr. Vincent P. Ferrera Dr. Benjamin Philpot
2011	Dr. Alberto Bacci Dr. Andrew A. Pieper
2012	Dr. Marie Carlen Dr. Genevieve Konopka
2013	Dr. Carmen Andreescu Dr. David Foster Dr. Hiroki Taniguchi
2014	Dr. Elena Ivleva Dr. Aristotle N. Voineskos
2015	Dr. Kristen J. Brennand Dr. Nandakumar Narayanan
2016	Dr. Conor Liston Dr. Margaret Cho
2017	Dr. Marcelo de Oliveiera Dietrich Dr. Elise B. Robinson
2018	Dr. Christina Gremel Dr. Ueli Rutishauser

2019 FREEDMAN PRIZEWINNER
FOR EXCEPTIONAL BASIC RESEARCH

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

2016 BBRF Young Investigator

Dr. Anna Molofsky is an Assistant Professor in the Department of Psychiatry and the Weill Institute for Neurosciences at the University of California, San Francisco.

The Molofsky lab studies synapses — the essential connections between nerve cells in the brain. In particular, the lab investigates the role of the immune system in helping synapses to form properly. While the immune system plays many healthy roles in the brain, inflammation caused by infection and brain injury can also increase the risk for some mental illnesses, including autism spectrum disorders, schizophrenia, and depression.

To understand the cells and molecules responsible for these effects, Dr. Molofsky and her group use animal models to study the impact of immune signals on synapses. In one recent study, the team found that an immune signal called Interleukin-33 (IL-33) is produced in the healthy brain and prompts the brain's immune cells — known as microgliato eliminate extraneous synapses. The Molofsky lab continues to study how immune signals play adaptive roles during brain development and learning. These studies may one day lead to new ways to diagnose and treat the synapse abnormalities that occur in many mental illnesses.

"My BBRF grant provided seed funding to enable a new research direction as I was just starting my lab. This was crucial to the publication of my first senior author paper and to obtaining additional independent funding. BBRF support enabled us to focus our future research on how the immune system shapes healthy brain development and how immune function is altered in mental illnesses."

2019 FREEDMAN PRIZE
HONORABLE MENTION

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

2018 & 2016 BBRF Young Investigator

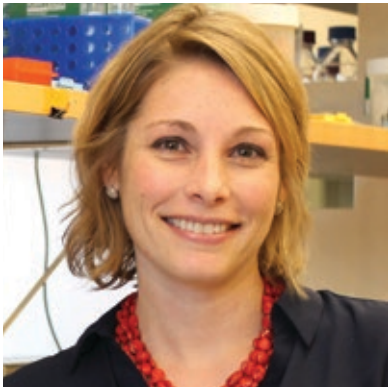
Dr. Erin Calipari is an Assistant Professor at Vanderbilt University in the Department of Pharmacology.

Dr. Calipari's work focuses on understanding the interplay between neuronal activation and long-term changes in transcription in the expression of behaviors.

The Calipari lab seeks to understand how information about stimuli is encoded in the brain. Dr. Calipari's most recent work has focused on how sex differences in these processes make women particularly vulnerable to substance use disorder. Women transition to substance use disorder faster from first use and relapse at higher rates than men, however, the underlying neural mechanisms controlling this vulnerability remain unclear. Dr. Calipari's work has identified important interactions between ovarian hormone cycles and reward system function that enhance the psychoactive effects of stimulants and promote the development of addictive behaviors. Understanding the female-specific factors that drive disease vulnerability and progression will be critical to expanding the efficacy of psychiatric disease treatments.

"My BBRF Grant was absolutely critical to my successful transition to independence. The funds allowed me to take risks and push the boundaries of how we understand information encoding in the brain and the findings from those studies were the foundation for future grants that have allowed this work to continue."

2019 FREEDMAN PRIZE
HONORABLE MENTION



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

2016 BBRF Young Investigator

Dr. Dorothy Schafer is an Assistant Professor in the Department of Neurobiology and Brudnick Neuropsychiatric Institute at the University of Massachusetts Medical School.

Dr. Schafer's lab investigates the role of microglia, a resident and exquisitely plastic innate immune cell of the central nervous system, in regulating neural circuit structure and function. Studies in autism spectrum disorders and neuropsychiatric disorders such as schizophrenia have now revealed an abundance of inflammatory microglia.

To gain a better understanding of how microglia regulate the development and function of neural circuits, Dr. Schafer's lab is using cell-specific molecular genetic approaches and high-resolution imaging techniques to identify novel, disease-relevant mechanisms by which microglia function within brain circuits. In the process, they uncovered a new mechanism by which microglia 'listen' to changes in brain activity and subsequently remodel neural connectivity.

"This was one of the first grants that I was awarded as a new investigator. This served as a huge boost of confidence and gave me the support to pursue a new, high-risk direction in my lab. The outcome has been successful and the work has served as a foundation for exciting new scientific directions and increased funding."

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RESEARCH FOUNDATION
Awarding **NARSAD** Grants

THE BRAIN & BEHAVIOR RESEARCH FOUNDATION is committed to alleviating the suffering of mental illness by awarding grants that will lead to advances and breakthroughs in scientific research. The Foundation funds the most innovative ideas in neuroscience and psychiatry to better understand the causes and develop new ways to treat brain and behavior disorders.

Since 1987, the Foundation has awarded more than $394 million to fund more than 4,700 leading scientists around the world. This has led to over $3.9 billion in additional funding for these scientists. 100% of every dollar donated for research is invested in our research grants. Our operating expenses are covered by separate foundation grants.

RESEARCH FOR RECOVERY

30+ years

For more than 30 years the BBRF has fostered new research pathways and transformative breakthroughs.

60k+ donors

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

$394M awarded

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

4,700 researchers

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

100% OF EVERY DOLLAR DONATED FOR RESEARCH GOES TO RESEARCH