DEPARTMENT OF PSYCHIATRY AND HUMAN BEHAVIOR

Research Opportunities for Residents 2015/2016
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Welcome from the Chair

You have each completed eight arduous years preparing for the moment when you will finally get your first paycheck as a physician! With it will come the responsibility of using what you have learned to help others. Over the next four years, you will begin to define your professional identity as a psychiatrist. You will have the privilege of listening to others’ innermost thoughts and the responsibility of helping your patients transform those thoughts into hope and recovery. You will realize what you have come to understand is only the beginning. You will learn that your patients have much to teach you about yourselves. You will struggle with how to balance the complexity of your own lives with those of your patients, and you will learn how to put your own thoughts and feelings aside in order to better understand the thoughts and feelings of others. You will come to know how much we have learned as a field and yet how little we know. You will be challenged by having to learn a bewildering array of therapeutic modalities and by having to integrate them into a therapeutic plan that is unique for every individual you treat. You will learn from the faculty, your supervisors, your peers, and most of all, from your patients. You will be witness to inspiring recoveries and sobering tragedies. In sum, the next four years will leave an indelible stamp on who you are and who you will become, as a professional and as an individual. It is our hope that you will decide to share these defining years of who you will become with us.

Why Brown? We are committed to collaboratively crafting a unique educational plan with every incoming resident. There has never been a more exciting time to begin a psychiatric residency. The Department of Psychiatry & Human Behavior (DPHB) at Brown is at the cutting edge of advances in our basic understanding of brain function. These advances are leading to the development of new, more effective treatments for the major neuropsychiatric disorders. Fundamental progress in our understanding of the neural underpinnings of cognition and emotion will lead to a synthesis of how psychological and pharmacologic treatments work. As the largest department in the medical school, with over 150 full time academic faculty and over 240 clinical faculty, as well as the department with the most external funding, the DPHB is well positioned for the future. Our R-25 (NIMH research funded) training grant provides residents who are interested in pursuing research careers to work alongside some of the best basic and clinical research scientists in the country during their residency. With a wide diversity of patients and training sites, the Brown residency will provide you with a training experience that also allows you to determine what you are truly passionate about in this field. It is the drive to integrate scientific discovery with compassionate care that defines our purpose. In keeping with that mission, we are looking for applicants who are striving to leave the world a better place than they found it. I encourage you to closely examine the breadth, depth, and overall excellence of our Department on your visit.
Welcome from the Director of Research Training for the Residency

The Department of Psychiatry and Human Behavior at Brown offers outstanding research opportunities for residents. The Department’s research activities have remarkable breadth and depth, and we are considered one of the most outstanding academic psychiatry departments in the country. We have excellent faculty who are known not only for their research and other scholarly activities but also for their collaborative spirit, accessibility to residents and other trainees, and dedication to research mentoring.

Our department has an R25 grant funded by the National Institute of Mental Health (NIMH), which offers substantial research training and protected research time for residents. We are one of the few departments in the country with an R25 grant, which attests to the excellence of our faculty and our residents. These characteristics make Brown a terrific place for residents to do research. Brown University is also an outstanding place to get additional research training after residency; we offer many post-residency research fellowships that provide additional research training to further prepare for a research career.

Why do research as a resident? Research is exciting – it’s about generating new knowledge, exploring unanswered questions, and moving the field forward. Doing research is extremely rewarding intellectually, and it ultimately improves the care and well-being of patients. Getting involved in research during residency will enhance your training and education. If you’re interested in a research career, doing research as a resident will be an invaluable experience that will help you meet your future career goals.

Our goal is to make research accessible to all interested residents – to help you learn about research, offer a wide range of research opportunities, help you find a research mentor in your area of interest, and make research a valuable and rewarding part of your training. A research experience is optional, and it can be a large or small part of your training at Brown. Our NIMH-funded R25 grant gives selected residents increased opportunities to do research during residency. Our goal is to tailor a research experience to each person so it fits your needs and enhances your training experience.

This booklet will acquaint you with some of the exciting research activities and opportunities in our Department. It provides an overview of some of the Department’s and residents’ research activities, specific research opportunities for residents, where to find additional information about research at Brown, and information on our Department’s current research funding. It also includes a sampling of biosketches of some of our outstanding research faculty. Residents who are interested in pursuing basic science or translational research can elect to work with outstanding faculty in departments at Brown such as the Department of Neuroscience and the Department of Cognitive, Linguistic, and Psychological Sciences. Many of our department’s faculty have close ties and ongoing research collaborations with a broad range of other departments at Brown.

If you have any questions about research opportunities at Brown, please feel free to call me at 401-444-1646 or email me at Katharine_Phillips@brown.edu. If you come to Brown University for your residency, we look forward to meeting with you to discuss research opportunities in our Department and to develop an exciting and rewarding research experience for you.
The Department of Psychiatry and Human Behavior (DPHB) at Brown University has a research portfolio that is outstanding in terms of its breadth and depth. Our research faculty are highly productive and have approximately $36 million (direct and indirect costs for the 2015-2016 fiscal year) in sponsored research. This includes research awarded directly to Brown and to department faculty in the seven Brown-affiliated hospitals and Centers.

Currently, approximately 103 faculty members are principal investigators on more than 280 research grants. Funding sources include the National Institute of Mental Health, National Cancer Institute, National Institute of Child Health and Human Development, National Institute on Drug Abuse, National Institute of Alcohol Abuse and Alcoholism, other foundations, and industry.

One of our strengths is cross-disciplinary research collaboration. Many of our research faculty in the DPHB collaborate with faculty from other Brown departments who are doing research that is relevant to mental health, such as the Departments of Neuroscience, Molecular and Cell Biology, Engineering, and Cognitive, Linguistic, & Psychological Sciences. Residents who are interested in pursuing basic science or translational research can elect to work with faculty in these departments.

Some Areas of Research Focus

Research in the DPHB covers a very broad range of topics, which includes basic neuroscience, translational neuroscience research, clinical research, and public health research. One well-known strength is treatment research in mental illness and addictions. Many investigations focus on clinical trials of new treatments, including novel psychosocial treatments, pharmacotherapies, transcranial magnetic stimulation, transcranial direct current stimulation, and deep brain stimulation.

Adult psychiatric research accounts for a diverse portfolio of research on depressive disorders, PTSD, obsessive-compulsive and related disorders, neurodegenerative and dementia disorders, somatic symptom and related disorders, and many others. Research is also conducted on constructs that cut across diagnostic categories (e.g., executive functioning and visual processing). The DPHB has a number of longitudinal studies on the naturalistic course and outcome of disease. Research on women’s mental health is an additional strength at Brown.

The department also conducts laboratory studies in basic neuroscience. Research in molecular genetics, neuroimmunology, and cellular biology are crucial to psychiatric research. Although research in neuroscience and basic bio-behavioral mechanisms focuses on molecular, cellular, and animal studies, this work shares the same focus on mental illness as research that is more clinically oriented; there is a concentrated effort to conduct translational research which aims to bring the fruits of basic research to the clinic. An example is the work of our OCD and related disorders groups, which are pursuing basic knowledge of neural connectivity with the goal of developing innovative neuromodulatory approaches to treatment. Another example is ongoing investigation of genetic and molecular mechanisms underlying disorders of cognitive development, such as autism and intellectual disability. Recently, Brown University received a five-year $11 million grant from the National Institute of Health to conduct five research projects on the neuroscience of attention and related disorders and to further strengthen our neuroimaging infrastructure.

The DPHB is the best funded and largest department in the Brown Institute for Brain Science (see below). The Institute is a unique interdisciplinary organization that promotes translational research on the brain. It includes more than 100 faculty from a diverse group of departments at Brown, spanning basic and clinical departments as well as physical and biological sciences. The DPHB also has research collaborations with Brown's MRI Research Facility, Center for Genomics and Proteomics, Laboratories for Molecular Medicine, Norman Prince Neuroscience Institute, Center for Neurorestoration and Neurotechnology, and other Institutes and Centers at Brown that do research relevant to mental health.

In the area of addictions and substance abuse, investigators at the Brown Center for Alcohol and Addiction Studies (see below) conduct basic bio-behavioral studies to examine mechanisms and to develop new treatments for
disabling addictions. Basic research into the pharmacology of alcoholism and molecular mechanisms of drug dependence has expanded toward developing new and innovative clinical interventions for addictive disorders.

Behavioral Medicine represents a large and productive division of the DPHB and is coordinated by the Center for Behavioral and Preventive Medicine. Ranging from biological investigations to public health concerns, this division is a prominent contributor to research findings in the field. Embracing the entire human life span, Behavioral Medicine investigates such topics as health promotion among women, the psychological effects of physical activity, addictions, cancer prevention, and cardiovascular risk.

Child and adolescent research is a notable strength at Brown. Developmental studies are conducted in individual laboratories as well as Brown University Centers (Center for the Study of Children at Risk, Center for the Study of Human Development, and Center for Alcohol and Addiction Studies). Areas of focus include basic behavioral research and clinical trials in depression, bipolar disorder, and suicidality. Research on risk and vulnerability is identifying risk factors and coping mechanisms during development. Risk factors include both biological predisposition (e.g., genetic factors, toxin exposure, and prenatal trauma) and environmental factors (e.g., childhood maltreatment, family characteristics, parental mental illness, and peer relationships). These individual and contextual risk factors are being examined in relation to school functioning, family and peer functioning, the development of psychopathology, and risk for HIV. Sleep and chronobiology are additional areas of research, with a focus on basic behavioral processes in circadian rhythms; pubertal effects; sleep patterns in infants, children, and adolescents; associations of alcohol use with sleep and circadian processes; and the role of sleep in clinical disorders such as attention deficit hyperactivity disorder. Psychosocial aspects of physical illness, including asthma and obesity, are also being studied. Neuroimaging studies are also being conducted.

Interdisciplinary Collaborations

Much of the research done at Brown is interdisciplinary, involving strong collaborations between psychiatrists and psychologists within the department, as well as collaborations with pediatricians, primary care physicians, neuroscientists, neurologists, neurosurgeons, engineers, educators, epidemiologists, and economists throughout the University and its affiliated hospitals. This research effort is highly disease-focused and translational, so that even more basic research efforts are closely tied to clinical issues and patient care.

The DPHB has prioritized the development of multidisciplinary translational projects that include brain science faculty on the Brown University campus as well as public health program faculty involved in health policy and dissemination of evidence-based treatments. Brown has multiple Institutes and more than 18 Centers that encourage interdisciplinary scholarly work. Each Center is home to a robust research program. Below we provide brief summaries of several of these Institutes and Centers, including the Brown Institute for Brain Science, the Norman Prince Neurosciences Institute, the VA Center of Excellence for Neurorestoration and Neurotechnology, the Brown School of Public Health, and the Center for Alcohol and Addiction Studies.

Brown Institute for Brain Science

Created in 2000, the Brown Institute for Brain Science comprises more than 100 Brown faculty and spans 13 departments, including the Department of Psychiatry and Human Behavior. The Institute includes basic and clinical departments, as well as the physical and biological sciences, and it provides a mechanism to advance interdisciplinary research efforts among this broad group of departments. Many psychiatry faculty have an active
role in the Institute. The Brown Institute for Brain Science has elevated Brown into the top tier in teaching and research.

The Institute fosters the formation of new interdisciplinary research teams, facilitates efforts to obtain funding for multi-investigator research projects, provides seed research funding, supports trainee and student training, and sponsors lectures and colloquia. The Institute is developing and supporting a series of interdisciplinary research Centers that focus on established or emerging areas of excellence in brain research at Brown. The Institute also works to establish critical research infrastructure, exemplified by the Institute’s core facilities, which include a 3T MRI research-dedicated magnet, a state-of-the-art mouse genomics facility, a proteomics core, next generation sequencing, and a behavioral phenotyping core.

The Institute for Brain Science’s three major aims relate directly to psychiatry:
• Understand fundamental genetic, molecular, cellular, circuit, and systems functions that underlie higher brain functions
• Improve brain health by revealing mechanisms of disease and injury and by implementing new therapies for brain disorders
• Create neurotechnology to repair the brain or replicate the brain’s capacity to understand and learn

Norman Prince Neurosciences Institute
This Institute is composed of leadership from the Departments of Psychiatry, Neuroscience, Neurology, Neurosurgery, Pathology, Neuroradiology, and Emergency Medicine. The Institute is dedicated to advancing the neurosciences and reducing human suffering from disorders of the nervous system through world-class research, outstanding clinical care, and advanced education.

The Institute’s goals are to:
• Conduct rigorous, innovative research that unites and leverages the strengths of its partners – Rhode Island Hospital and its Hasbro Children’s Hospital, Butler Hospital, Bradley Hospital, Brown University, and the Providence VA Medical Center
• Provide exceptional clinical care that is delivered with compassion and informed by current, cutting-edge science
• Educate a new generation of physicians and scientists to conduct collaborative, creative science and deliver the highest caliber of medical care

The VA Center of Excellence for Neurorestoration and Neurotechnology
This Center is a collaboration between the Providence VA Medical Center, Brown University, Butler Hospital, Lifespan, and Massachusetts General Hospital. This collaboration unifies distinguished researchers and clinicians in advancing and translating new therapies and technologies to restore function in disorders of the nervous system that impair movement and cognition in the Veteran population. The disorders addressed are those of major interest to Veteran populations, including spinal cord injury, limb loss, PTSD, pain, Parkinson’s disease, multiple sclerosis, and depression. The research, consequently, is aimed at identifying how these new technologies engage neural mechanisms to promote and provide functional restoration as well as the best use of technologies that optimize function for Veterans with these disabilities.

Brown School of Public Health
The School of Public Health coordinates and integrates academic, research, and public service programs relevant to population health. With over $50 million in annual external research funding, the School of Public Health has 11 nationally renowned research centers and institutes. Public Health educational programs include undergraduate concentrations in community health and biostatistics; a fully accredited MPH Program; Master of Science degrees in biostatistics, epidemiology, and behavioral and social science intervention; and doctoral programs in epidemiology, biostatistics, and health services research.

There are three post-doctoral training programs funded by the Agency for Healthcare Research and Quality. The Center for Alcohol and Addiction Studies has two
associated training programs, one funded by the National Institute on Alcohol Abuse and Alcoholism in alcohol abuse and addictions and one funded by the National Institute on Drug Abuse in substance abuse. The training programs provide post-doctoral research training for behavioral, medical, and social scientists and health care professionals who wish to conduct high-quality research in the early intervention and treatment of alcohol and other drug problems.

Center for Alcohol and Addiction Studies
The Center has had a close relationship with the DPHB for more than three decades. Center faculty conduct empirical research in a variety of areas related to alcohol abuse/dependence, drug abuse/dependence, and tobacco use, including laboratory investigations of mechanisms, treatment, early intervention, and policy. Funding comes from the federal government and a variety of foundations. The Center also provides comprehensive research training to predoctoral and postdoctoral research fellows.

HI-RES (Hospital Imaging Research and Education Service)
The hospital-imaging research and education service (HI-RES) is a Brown core service that fosters collaborative imaging research across Brown University and affiliated hospitals. HI-RES provides interdisciplinary education for trainees in the use of neuroimaging to advance the understanding of the biological basis of neurodevelopment disorders. Didactic sessions, journal clubs and hands-on sessions with trainees are offered.

Funding for Resident Research
1. Mentors: Residents have access to existing data/resources from ongoing projects in the mentor's laboratory. In some cases, residents may add a new focus to existing projects. Funds for such additions may be provided by the mentor or available from pilot research awards from Brown or other organizations.

2. Brown and affiliated centers frequently offer pilot award programs for faculty members who are engaged in new research programs; these may include resident research projects (with faculty sponsor).
   a. Brown Institute for Brain Sciences (BIBS) New Frontiers Fund – Designed to enable new interdisciplinary/inter-institutional research teams to amass pilot data for applications for extramural funding, up to $40,000. A faculty sponsor is required.
   b. BIBS Innovation Fund – Pilot awards for up to $100,000 to help brain scientists launch highly creative research projects with great potential that are too risky and early stage for external funding sources. A faculty sponsor is required.
   c. Center for Neurorestoration and Neurotechnology (CfNN) at the Providence VA Medical Center – Pilot awards for up to $30,000. These projects generally focus on the use of technology for healing and rehabilitation. A faculty sponsor is required.
   d. Brown MRI Research Facility – Pilot projects can receive up to 10 hours of free scanning time to develop pilot data. A faculty sponsor is required.
   e. Dean's Emerging Areas of New Science (DEANS) Awards – Aim to foster scientific discovery through partnerships between Brown basic science faculty and clinical faculty members. A faculty sponsor is required.

3. COBRE Center for Nervous System Function - Offers four 12-month grants of $30,000-$40,000, for research related to nervous system function. PGY 4s nearing faculty appointment may be eligible.

4. Numerous foundations offer pilot funding for trainees. Programs awarding funds to current and former residents include the Thrasher Research Fund, the American Academy of Child and Adolescent Psychiatry, and the Brain and Behavior Research Foundation.

CoresRI
CoresRI, a valuable resource for Rhode Island's research community, is a searchable online database of research instrumentation and services at academic and medical institutions across the state. Researchers can search by facility, institution, academic discipline, or keyword to locate a range of scientific tools in facilities at Brown, its affiliated hospitals, and academic institutions across the state.

CoresRI lists more than 500 instruments and services, all of which are available to physicians, scientists, and engineers, regardless of institutional affiliation. The site facilitates access to core research technologies and is meant to foster collaboration and support across institutional lines.

Research Fellowships
The DPHB has approximately 50 post-doctoral fellows who are involved in research as well as numerous federally funded research training fellowships that are affiliated with the DPHB. These consist of NIH-funded research fellowships in mental health, child and adolescent, bio behavioral HIV research, and training in behavioral and preventive medicine. The Brown Center for Alcohol and Addiction Studies sponsors a NIDA-funded post-doctoral research fellowship on substance abuse intervention...
outcome research and an NIAAA-funded post-doctoral fellowship on alcohol intervention/treatment outcome research training. In addition, the Department of Neuroscience sponsors an NIMH-funded postdoctoral training program in systems and behavioral neurosciences.

Information about support for research training during residency, including the DPHB’s NIMH-funded research training grant (R25), is provided in this booklet in the section “Specific Research Opportunities for Residents Available at Brown.”

Faculty Members

Research in the Department of Psychiatry and Human Behavior is conducted by outstanding faculty members who are nationally and internationally known for their research contributions, grant funding, publications, and honors and awards, as well as their other scholarly activities (see separate biosketch section for information on selected faculty). While our faculty’s research and scholarly accomplishments are impressive, our faculty are also known for something else: their collaborative spirit, accessibility to trainees, and dedication to mentoring. Psychiatrists, psychologists, neuroscientists, and members of other disciplines fruitfully collaborate with one another on a wide range of studies. Research faculty welcome the involvement of residents in their research and the opportunity to provide research mentoring. These characteristics make Brown University an outstanding environment for residents and other trainees to obtain a research experience.

Many of our research faculty collaborate with faculty from other Brown departments who are doing research that is relevant to mental health, such as the Departments of Neuroscience, Molecular and Cell Biology, Engineering, and Cognitive, Linguistic, & Psychological Sciences. Residents who are interested in pursuing basic science or translational research can elect to work with faculty in these departments.

Research Symposia

Brown’s departments, Institutes, and Centers sponsor many research-focused symposia, seminars, and talks that are relevant to mental health. For example, the DPHB hosts the Annual Brown Mind Brain Research Day. The symposium allows national leaders, the Rhode Island and regional community, and our faculty, residents, and other trainees a venue in which to present, view, and discuss the groundbreaking research being conducted in the department. Attendees include hundreds of faculty, residents, graduate students, and other trainees (including from departments of Neurology, Neurosurgery, Neuroscience, and Cognitive, Linguistic, and Psychological Sciences), as well as members of the local and regional community.

Past keynote speakers include such distinguished scientists as Thomas Insel, MD; Steven Hyman, MD; Richard Axel, MD, 2004 Nobel Laureate; Paul Greengard, PhD, 2000 Nobel Laureate and Vincent Astor Professor at the Laboratory of Molecular and Cellular Neuroscience at the Rockefeller University; Alan Schatzberg, MD; Husseini K. Manji, MD, past Chief of the Laboratory of Molecular Pathophysiology and Director of the Mood and Anxiety Disorders Program at the National Institute of Mental Health; and Floyd E. Bloom, MD, past Chairman of the Department of Neuropharmacology at the Scripps Research Institute (TSRI) in La Jolla, California. Additionally, the day includes an interactive poster session where more than 100 posters submitted by our faculty, residents, and trainees are presented.

Teaching Workshops

The DPHB also holds Teaching Workshops annually. These workshops allow national leaders, the Rhode Island and regional community, and our faculty, residents, and trainees a venue in which to discuss the groundbreaking teaching and education initiatives and programs being conducted within the department and beyond.
Recognized Areas of DPHB Research Excellence*

*There are many other areas of research focus in the DPHB; those listed here are federally funded research areas.

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<tr>
<th>Psychopathology and Treatment</th>
<th>Behavioral Medicine and Prevention</th>
<th>Psychiatric Genetics</th>
<th>Neuroimaging</th>
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<tr>
<td>Addictions</td>
<td>HIV</td>
<td>Autism</td>
<td>Bipolar Disorder</td>
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<tr>
<td>Anxiety Disorders</td>
<td>Obesity</td>
<td>Addictions</td>
<td>OCD</td>
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<tr>
<td>Autism</td>
<td>Smoking</td>
<td>OCD</td>
<td>Behavioral Medicine</td>
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<tr>
<td>Chronobiology</td>
<td>Exercise</td>
<td>Behavioral Medicine</td>
<td>Infant Development</td>
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<tr>
<td>Mood Disorders</td>
<td>Behavioral Health/Primary Care</td>
<td>Chronobiology</td>
<td>Alzheimer's</td>
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<td>Suicide</td>
<td>Childhood Asthma</td>
<td>Schizophrenia</td>
<td>PTSD</td>
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<tr>
<td>Neurodegenerative Disorders</td>
<td>Complementary Medicine</td>
<td>Infant Development</td>
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<tr>
<td>BDD</td>
<td>Migraines</td>
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<td>ADHD</td>
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<td>OCD</td>
<td>Technology-Assisted Treatments</td>
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<td>Women's Medicine</td>
<td>Eating Behavior</td>
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<td>Interpersonal Violence</td>
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<tr>
<td>Neuromodulation</td>
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<td>TMS-DBS-tDCS</td>
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<td>Early Life Stress and Depression</td>
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Adult
Child
Adult and Child
The research grant listing is based on reports collected regarding direct and indirect costs for active research conducted by the Department of Psychiatry and Human Behavior faculty centered at Brown University and the Brown University-affiliated hospitals and centers. This list is comprised of some of the grants active during the 2014-2015 fiscal year and does not reflect grants that may have been funded after that time. Grants on this list may have been completed during the course of the 2014-2015 year. Grant listings may be repeated for co-investigators or subcontracts residing at different hospitals.

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<tr>
<th>Principal Investigator</th>
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<th>Funding Agency</th>
<th>Title of Project</th>
<th>Project Period</th>
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<tr>
<td>Abrantes, Ana Butler</td>
<td>NCI</td>
<td>Aerobic Exercise for Smokers with Depressive Symptomatology</td>
<td>9/1/2013-6/30/2018</td>
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<tr>
<td>Armey, Michael Butler</td>
<td>NIMH</td>
<td>Multi-Method Assessment of Emotion Reactivity: Translational Research in Suicide</td>
<td>7/17/2012-4/30/2017</td>
<td></td>
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<tr>
<td>Armey, Michael Butler</td>
<td>NIMH</td>
<td>Behavioral and Ecological Suicide Tracking: Attention, Interpretation, and Memory</td>
<td>6/20/2013-3/31/2018</td>
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<tr>
<td>Barker, David RIH</td>
<td>NIMH</td>
<td>Comparative Efficacy of HIV-Prevention Programs Among Youth in Mental Health Treatment</td>
<td>5/15/2014-3/31/2019</td>
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<tr>
<td>Battle, Cynthia Butler</td>
<td>NIMH</td>
<td>Adjunctive Psychotherapy for Perinatal Bipolar Disorder</td>
<td>5/7/2014-3/31/2017</td>
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<tr>
<td>Battle, Cynthia Butler</td>
<td>National Institute of Nursing Research</td>
<td>RCT of a tailored walking program to reduce stress among pregnant women</td>
<td>9/17/2014-7/31/2019</td>
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<tr>
<td>Battle, Cynthia Butler</td>
<td>National Institute of Child Health &amp; Human Development</td>
<td>Efficacy of a Prenatal Yoga Intervention for Antenatal Depression</td>
<td>9/1/2015-6/30/2020</td>
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<tr>
<td>Boisseau, Christina Butler</td>
<td>NIMH</td>
<td>Discontinuation of Long-Term SRIs in Obsessive Compulsive Disorder</td>
<td>3/6/2014-2/28/2016</td>
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<tr>
<td>Bock, Beth Miriam Hospital</td>
<td>NCCAM</td>
<td>Efficacy of Yoga as an Alternative Therapy for Smoking Cessation</td>
<td>7/1/2012-3/31/2017</td>
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<tr>
<td>Bock, Beth Miriam Hospital</td>
<td>NCCIH</td>
<td>Yoga as a Complementary Therapy for Type 2 Diabetes: An Initial Investigation</td>
<td>8/1/2015-5/31/2017</td>
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<td>Bond, Dale Miriam Hospital</td>
<td>NINDS</td>
<td>Behavioral Weight Loss as a Treatment for Migraine in Obese Women</td>
<td>7/1/2012-6/30/2016</td>
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<tr>
<td>Principal Investigator</td>
<td>Principal Investigator Affiliation</td>
<td>Funding Agency</td>
<td>Title of Project</td>
<td>Project Period</td>
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<td>Britton, Willoughby</td>
<td>Brown</td>
<td>NIH</td>
<td>Mindfulness Influences on Self-Regulation: Mental and Physical Health Implications</td>
<td>10/1/2015-8/30/2020</td>
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<td>Brown, Larry</td>
<td>RIH</td>
<td>NIMH</td>
<td>Training in Child/Adolescent Biobehavioral HIV Research</td>
<td>7/1/2013-6/30/2018</td>
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<td>Brown, Larry</td>
<td>RIH</td>
<td>NICHHD</td>
<td>A Pilot Gaming Adherence Program for Youth Living with HIV</td>
<td>9/28/2012-6/30/2016</td>
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<td>Carey, Michael</td>
<td>CBPM</td>
<td>NIMH</td>
<td>Development of a Novel HIV Risk Reduction Intervention for Sexually Abused Women</td>
<td>9/12/2012-7/31/2016</td>
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<tr>
<td>Carey, Michael</td>
<td>CBPM</td>
<td>NIMH</td>
<td>HIV Prevention for STD Clinic Patients</td>
<td>11/1/2011-6/30/2015</td>
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<tr>
<td>Carpenter, Linda</td>
<td>Butler Hospital</td>
<td>NIMH</td>
<td>2/2 Collaborative Study: Testosterone Augmentation in Women</td>
<td>7/24/2013-6/30/2016</td>
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<tr>
<td>Carpenter, Linda</td>
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Brown Has Many Research Opportunities for Residents

Brown is an outstanding academic institution with many research opportunities for interested residents. Some of our major strengths include the following:

- An R25 grant funded by the National Institute of Mental Health (NIMH) that offers research training and substantial protected research time for selected residents from PGY-1 through PGY-4.
- Outstanding research faculty who are accessible and enjoy mentoring residents.
- A broad range of research topic areas, ranging from basic neuroscience to clinical research to services/public health research.
- Numerous and ever-expanding collaborations among research faculty from our department and other departments and schools at Brown, such as the Department of Neuroscience; the Department of Cognitive, Linguistic, and Psychological Sciences; the Department of Engineering; the Department of Neurosurgery; and the School of Public Health.
- Brown University’s substantial commitment to ongoing growth in the basic and clinical neurosciences/psychiatry, which will provide an even richer array of research opportunities for residents in coming years.

Our goal is to help interested residents learn about and participate in research activities and to tailor research experiences to each resident’s interests and goals. A research training experience during residency can greatly enhance your training and learning experience. It can also help you meet your future career goals, especially if your goals focus on research or other scholarly activities.

The outstanding research faculty in the Department of Psychiatry and Human Behavior are highly productive and have approximately $36 million a year (direct and indirect costs) in sponsored research (this includes research awarded directly to Brown and to department faculty in the seven Brown-affiliated hospitals and centers). In addition to the department’s well-known strength in treatment research on mental illness and addictions, there is substantial research activity in biological bases of behavior and psychopathology. Ongoing research in the department covers a very broad range of topics. Much of the research is interdisciplinary, encompassing psychiatrists and psychologists within the department, as well as collaborations with pediatricians, primary care physicians, neuroscientists, neurologists, neurosurgeons, engineers, educators, epidemiologists, and economists outside the department.

Outstanding research that is relevant to mental health is also being done in departments on the Brown University campus. These departments include Neuroscience, Molecular and Cell Biology, Engineering, and Cognitive, Linguistic, & Psychological Sciences. These scientists collaborate on projects with researchers in the Department of Psychiatry and Human Behavior and are available to residents as research mentors.

Because of this high level of research activity, there are many opportunities for residents to get involved in research projects. In addition, Brown has a track record of commitment to training residents to conduct research. Brown’s excellent faculty are renowned not only for their research and other scholarly activities, but also for their collaborative spirit, accessibility to trainees, and dedication to research mentoring.

A research experience is optional, and it can be a large or small part of your training at Brown. In collaboration with a research mentor, you can participate in ongoing projects or initiate your own research project. Protected research time is available from PGY-1 through PGY-4. You may also attend a resident research seminar and journal clubs. As your time allows, you can attend research meetings in your mentor’s laboratory, T32 postdoctoral research seminars, or other lectures and seminars in the Brown University community that are relevant to your research interests. You are supported in carrying out and completing one or more projects, and you are encouraged to publish your work and present your findings at local and national meetings.

The residency provides monetary support for travel to scientific conferences. Additional support is available to residents who present their research data at conferences and to residents who participate in the research track.
R25 Grant to Support Resident Research Training Funded by the National Institute of Mental Health

Our residency program has been awarded an R25 grant from the NIMH to support research training for residents. We are one of the very few residencies in the country to have this type of research training grant. This grant reflects the excellence of our department, our faculty, and our residents, and our commitment to research mentoring.

Overview of the NIMH-funded R25 Research Training Grant

The R25 grant gives selected residents protected research time during their training. Residents increase their involvement in the research track with each successive year. The four core components of the R25 research education program are the following:

1) Individualized longitudinal mentored research training experience: An individualized “hands-on” longitudinal mentored research training experience is the core of each resident’s R25 experience. This research training experience may have a clinical, translational, and/or basic science focus, all of which are strengths at Brown. Based on research content areas, trainees are matched with R25 faculty mentors and use a majority of their protected time doing research under their mentor’s supervision. Residents progress from closely supervised introductory work in their mentor’s lab to greater independence and responsibility for their work. Residents are encouraged from the beginning of the program to develop their own ideas for more independent work, and all residents are expected to conduct their own project by PGY4 at the latest. Each resident’s research training is individualized to ensure an optimal training experience.

2) Research-focused didactic curriculum: All R25 residents also have dedicated time to participate in an individualized research-focused didactic curriculum consisting of courses and seminars. Seminars/courses cover key content areas that provide a conceptual framework for residents’ research, stimulate new ideas, facilitate their research, fill knowledge gaps, and provide a strong foundation for a future research career. Topics include translational neuroscience, treatment research, research methodology, ethics, statistics, grant writing, professional development skills, and other areas. Senior researchers lead most seminars/courses. Some didactics are required, which provide fundamental knowledge important to all R25 residents, regardless of their specific research focus. Other didactics are tailored to individual trainees’ research focus, stage of training, and unique educational needs.

Seminars/courses are sponsored by various Departments and Institutes at Brown and include residents from other disciplines (e.g., psychology post-doctoral students, neuroscience graduate students). This provides a rich training experience that offers new perspectives and the possibility of innovative cross-disciplinary research collaboration.

3) Career development: R25 residents are assisted with the development of their careers to enhance their future success as physician-scientists. This occurs via: 1) seminars that focus on career development skills; 2) attendance at a career-planning seminar; 3) mentoring by individual mentors and the R25 Program Directors; and 4) sponsoring of residents to participate in research-related activities and meetings at the national level, with the goal of fostering networking and the acquisition of knowledge and skills that are relevant to residents’ future careers.

4) Products and Outcomes: Specific productivity goals are established for each R25 trainee using individualized metrics. Products/outcomes include (but are not limited to) publications, poster presentations at local and national meetings, oral presentations, generation of pilot data for...
grant applications, and applications for research-related awards, especially those that enable residents to present and receive feedback on their research plans and ongoing projects. More advanced residents are encouraged to apply for grant funding.

**The R25 Research Education Program in Each PG Year**

Residents are expected to increase their research productivity and independence over the course of the residency. The protected time described below is dedicated to all four elements of the research education plan described above.

- **PGY-1**: Residents apply for the R25 during the PGY-1 year. There is no limit on the number of residents who may be approved to participate in the R25 during this year. From January-June, R25 residents have 10% protected time (one-half day a week) for research activities.

- **PGY-2**: Residents have 10% protected time (excluding the two night float months) for research activities. There is no limit on the number of residents who may be approved to participate in the R25 during this year.

- **PGY-3**: Three R25 residents each have 33% protected time during this year. One of these residents will conduct their research at the VA with a VA-based mentor. Building upon groundwork laid in PGY-1 and PGY-2, residents work more intensively on all elements of the R25, including their hands-on research project. During this outpatient year, R25 residents are encouraged to develop clinical expertise in an area relevant to their research focus, in addition to having a broad enough caseload to meet all ACGME requirements.

- **PGY-4**: Three R25 residents each have 80% protected time for research training. One of these residents will conduct their research at the VA with a VA-based mentor. PGY-4 R25 residents are expected to work more independently and be more productive than in prior years. Residents work more intensively on plans to transition to the next career stage.

**Selection of Residents for the R25**

PGY-1 residents apply for the R25 during the PGY-1 year. Selection is based on past research training and experience, previous research awards and honors, past research productivity, letters of recommendation, and career goals and evidence of commitment to a research career. The R25 Advisory Committee selects applicants for the R25. Once selected, residents progress to subsequent years of the R25 with the Advisory Committee's approval. The R25 has three slots in PGY-3 and three in PGY-4. The R25 has three slots in the PG-3 and PGY 4 years, and we match residents with research interests with these numbers in mind. The PGY-3 track residents continue on the research track in PGY-4 with the Advisory Committee’s approval.

**Other Research Opportunities for Residents**

Residents may also pursue research interests without participating in the R25 research track. This section describes these opportunities. Although non-research track residents may start doing research as early as PGY-1, this is not required. We recommend that non-research track residents who wish to do research begin doing so no later than the middle of their PGY3 year to give sufficient time to do meaningful work on a project and, ideally, participate in presenting and publishing.

All residents in all PG years are welcome to attend a resident research seminar that is overseen by the Director of Research Training (R25 residents are required to attend). The seminar covers a broad range of topics relevant to doing research. It includes didactic topics (for example, selecting a research topic, study design, ethics, writing manuscripts for publication) and career development issues. It also provides a forum for you to discuss your research ideas and projects, practice presentations, and discuss manuscript drafts. As your time allows, you may attend the R25 Career Planning Seminar as well as research seminars and lectures offered by Brown’s federally funded T32 research fellowships, the Brown Institute for Brain Science, and other Centers, Institutes, and Departments at Brown.

- **PGY-1**: During the PGY-1 year, you select a research mentor. You are matched with a research mentor through meeting with the Director of Research Training, meeting with potential mentors, understanding your interests and goals, and your familiarity with the various projects being conducted in the department. After selecting a research mentor, you are encouraged to begin working on a research project in the PGY-1 year.

- **PGY-2**: You will meet on a regular basis with your selected research mentor. You begin to develop a suitable research project. Residents who started a project in the PGY-1 year will continue their project(s). During this year, you will attend the regularly held resident research seminar that is described above. You also attend a weekly journal club conducted by faculty at Rhode Island Hospital and can attend other lectures and seminars in the Brown community as your schedule allows.

- **PGY-3**: You continue to work with your mentor on your to read your research project(s). You may use one afternoon per week for research. You also continue to attend the resident research seminar, journal club, and other relevant
meetings and seminars in the Brown community as your schedule allows. In addition, you are encouraged to participate in relevant national research mentoring activities. You are also encouraged to present a poster at the department’s annual research day and at a national meeting.

**PGY-4:** You use a portion of your elective time to continue working on research. You continue to attend the above-noted seminars and meetings plus an additional journal club, and you are encouraged to give a presentation of your work at the resident research seminar (you can also do this in earlier years). You will prepare a poster(s) presentation based on the results of your project(s), and you are encouraged to present this work at the department’s annual research day and at a national meeting (this may also be done earlier in training). You are encouraged to write up your results for publication in a journal, in collaboration with your faculty mentor (this, too, is encouraged in earlier years). As your schedule allows, you can attend other lectures and seminars in the Brown community.

**Research Elective During PGY-4**

The research elective rotation is an elective training experience for residents who do not participate in the research track. During this rotation, you will gain additional knowledge, skills, and experience relevant to conducting research. This rotation enables residents who are not participating in the research track, under the mentorship of a researcher faculty member, to conduct a research project, learn research methods, and gain other research-related skills. The rotation requires an interest in research, a commitment to conducting a research project, a high degree of organization and efficiency, commitment to developing an analytic thinking approach, and a strong commitment to professionalism (in particular, adherence to ethical principles pertaining to research).

This rotation occurs during PGY-4. The rotation is a minimum of one month and may be longer. It is expected that residents who participate in the elective described here will have had some involvement in research or related scholarly activity earlier during their training.

The goal of this research elective is to enable residents to learn about research and participate in a research project that is tailored to each resident’s interests and goals. During this elective, residents learn about research methods and work on a research project under the mentorship of a faculty researcher in the department. Other research activities will be determined by the resident’s interests and research productivity to date.

**Post-Residency Research Fellowships at Brown**

Residents who are interested in a research career are encouraged to apply for a position in a Brown University postdoctoral research fellowship, which provides additional research training after residency to further prepare for a research career. There are currently five federally funded research training fellowships (T32s) at the medical school that are affiliated with the Department of Psychiatry and Human Behavior. In addition, the Department of Neuroscience has a postdoctoral T32 research training grant that is funded by the National Institute of Mental Health.
From some of our research-focused residents...

Jorge Almeida, MD, PhD  
(PGY-3, 2015-2016)

I completed my medical education and psychiatry residency training in Sao Paulo, Brazil. I then obtained a PhD focusing on effects of antidepressants on the brain using neuroimaging. I subsequently moved to Pittsburgh, PA, where I obtained a post-doctoral degree under the supervision of Mary Phillips, MD, Director of the Mood and Brain Laboratory at the Western Psychiatric Institute and Clinic (WPIC) at the University of Pittsburgh. Between 2010 and July 2013, I served as Assistant Professor at the Clinical and Translational Affective Neuroscience Program, Department of Psychiatry, at the University of Pittsburgh, where I acquired skills not only in standard neuroimaging but also in cutting-edge neuroimaging methodologies, such as effective connectivity analysis to study brain circuits and pattern recognition analysis, which promises to bring brain imaging one step closer to clinical practice.

In July 2013, I joined the adult psychiatry residency training program at Brown University. I am thrilled to be part of the research track and am confident it will provide me with opportunities to grow as an independent researcher. Brown University is a leading institution in neuroimaging techniques. I have worked with Daniel Dickstein, MD, using neuroimaging as a complementary tool for early detection of mood episodes, differential diagnosis between unipolar and bipolar depression, personalized treatment choice, and for testing new medications/devices for the treatment of mood disorders. Under Dr. Dickstein's mentorship, I received a research award which will allow me to acquire neuroimaging pilot data on individuals at risk for bipolar disorder, which will inform later independent research grant submissions. I am also working under the mentorship of Linda Carpenter, MD, who is a leading clinical researcher especially in device based treatments of Mood Disorder. Dr. Carpenter is the director of the Mood Disorders Research Program, where she leads a diverse spectrum of clinical trials, from innovative compounds to device based clinical trials.

Robert Fenster, MD, PhD  
(PGY-4, 2015-2016)

My interests in neuroscience began during a 10th grade summer internship at Rockefeller University where I ground mouse chow for experiments about smell and memory. I left New York for college at Harvard but returned to get my MD at Weill Cornell and my PhD at Rockefeller, studying the molecular mechanisms of selective neuronal vulnerability in Huntington's disease in Paul Greengard's laboratory. My work used cell-type specific gene expression profiling to find novel mechanisms of neurodegeneration in Huntington's.

At Brown, I have continued pursuing my goal of becoming a physician-scientist with interests in the molecular mechanisms underlying psychiatric and neurological disease. For my research project during residency, I have extended work from my thesis in the laboratory of Dr. Myriam Heiman, who is a core member of the Broad Institute of MIT and Harvard. We have found novel ways in which the chromatin of neurons in Huntington's disease is altered that we hope will lead to the development of new therapies. In an exciting development for me, I have recently begun treating patients with HD in my outpatient clinic. I am hoping in the future to develop further connections between my clinical and research interests.

Under Dr. Carpenter's supervision, I will receive training in an array of topics necessary to successfully participate in clinical trials. I am looking forward to completing this research project and further working in this exciting area in psychiatry.

As an R25 resident at Brown, Dr. Almeida has been awarded a Pilot Research Award for Residents from the American Academy of Child and Adolescent Psychiatry, a Resident Poster Award at the Brown Mind Brain Research Day, a travel award from the American College of Neuropsychopharmacology, and he was nominated to the Scientific and Membership committee at the Society of Biological Psychiatry.
When I was choosing a place to train for residency, I chose Brown because of the tremendous flexibility the program offers. Residents are able to craft a training program tailored to their unique needs and interests. Brown also has the strength of being in Providence, which is a wonderful place to raise a family.

As an R25 resident at Brown, Dr. Fenster has received the BRAIN Scholar Award from the American Association of Directors of Psychiatric Residency Training and was awarded the Chair's Choice Travel Award from the Society of Biological Psychiatry.

Danielle Morriss, MD
(PGY-2, 2015-2016)

I completed my medical school training at the Medical University of South Carolina in Charleston. In undergraduate training, I became interested in research while studying habitat disturbance on endangered lemurs in Madagascar. In medical school, I assisted in developing a protocol to use an online social network to study social skill acquisition for adolescents with autism spectrum disorder. I also co-authored a multi-disciplinary review of self-injurious behavior in autism spectrum disorder while doing an internship at an autism treatment center.

One of the reasons I was drawn to Brown's residency program was the opportunity to have protected research time under the R25 as well as great faculty support and structured research seminars to help us develop as clinician-researchers. I am currently developing a project within the Rhode Island Consortium for Autism Research and Treatment to investigate the relationship between family history of psychopathology and the clinical presentation of individuals with autism spectrum disorder. We will use data collected on individuals enlisted in RI-CART to obtain family psychiatric and neurodevelopmental history as well as their clinical presentation (autism severity, levels of communication, adaptive behavior, etc.) and investigate for a potential pattern of proband vulnerability. RI-CART is a unique consortium that brings together multiple stakeholders including providers, scientists, educators, and parents to conduct cutting-edge autism research.

Scott Pruett, MD, PhD
(PGY-2, 2015-2016)

I am a resident in Brown’s Adult Psychiatry Residency Program and was just recently accepted to the Research Track. I completed my Medical and Graduate training at Louisiana State University School of Medicine in Shreveport. For my PhD, I trained in the lab of Michael Salvatore, Ph.D., where I studied age-related changes in dopamine regulation in nigrostriatal and mesoaccumbens pathways with a primary focus on how these changes impact age-related movement deficiencies. In particular, we investigated in a rat model how decreased movement with age may be related to deficiencies in growth factor signaling that can lead to downregulation and decreased activity of the rate-limiting enzyme in dopamine biosynthesis, tyrosine hydroxylase, in the substantia nigra. From this work, I was fortunate to publish six manuscripts, 2 of which were first-author publications, over ten abstracts, and present at multiple venues including four Society for Neuroscience annual meetings as well as give several invited presentations including a Department of Neurology Grand Rounds and a local Parkinson’s Disease Symposium. This work also solidified my background in molecular neurobiology and neurochemistry and continues to serve me well in my current research.

Thus far, I have immensely enjoyed my time in Providence and in the Brown psychiatry residency program. It has been an extremely open and flexible environment that has allowed me to further my research goals all while receiving excellent clinical training. From my fellow residents, many of whom I have developed tight bonds with, to the program directors, everyone is committed to making the program the absolute best that it can be all while recognizing the importance of appropriate work-life balance. Overall, it is an excellent program and one that I am thrilled to be a part of.
Kathryn Ridout, MD, PhD
(PGY-3, 2015-2016)

Prior to residency, I completed the MD/PhD Program at The Pennsylvania State College of Medicine, finishing my PhD in Cellular and Molecular Biology in the Department of Pharmacology. I studied second generation antipsychotic metabolism and how interindividual genetic differences may contribute to efficacy or development of side effects in a person. From this work, I published three first-author papers and a number of abstracts.

One of the unique and beneficial aspects of the Brown Psychiatry Residency is protected research in the first year. This allows for meetings with potential mentors, working on data and manuscripts, and growing your research experience during the intern year. The research mentorship for residents is fantastic, providing guidance from established research psychiatrists towards pursuing your research interests and goals.

As an R25 resident at Brown, Dr. Ridout has received the NIMH Outstanding Resident Award, the American Psychiatric Association Resident Poster Award, travel awards from the Society for Biological Psychiatry and the American Psychiatric Association (Research Colloquium for Junior Investigators), a fellowship award from the American Society of Clinical Psychopharmacology, and The Educational Outreach Program Award and Pilot Research Award from The American Academy of Child and Adolescent Psychiatry.

Samuel Ridout, MD, PhD
(PGY-3, 2015-2016)

My PhD in exercise physiology and MD were both completed at The Pennsylvania State University College of Medicine. My research focus at that time was on muscle blood flow and aging as well as effects of biological sex and aging on cardiac function. This work was exceedingly productive and resulted in multiple publications during my years with my research mentor.

Establishing your research mentor and beginning research-focused discussions is encouraged early at Brown in order to maximize your time as well as the potential productivity between you and your mentor. The director of the research track as well as the residency program directors are always helpful and happy to facilitate communication between you and established faculty. Since entering the research track of the general psychiatry residency as a fellow of the R25 grant, I have been working under the mentorship of Drs. Linda Carpenter and Noah Philip. Their lab group utilizes neuromodulation techniques for the treatment of mood disorders, anxiety and post-traumatic stress disorder.

As an R25 resident at Brown, Dr. Ridout has received the NIMH Outstanding Resident Award, the American Psychiatric Association Resident Poster Award, travel awards from the Society for Biological Psychiatry and the American Psychiatric Association (Research Colloquium for Junior Investigators), a fellowship award from the American Society of Clinical Psychopharmacology, and an Educational Outreach Program award from the American Academy of Child and Adolescent Psychiatry.
Brian Theyel, MD, PhD  
(PGY-4, 2015-2016)

I completed medical school at the University of Chicago, where I earned an MD as well as a PhD in Computational Neuroscience. During graduate school, I investigated a neural circuit connecting thalamus to cortex in the lab of S. Murray Sherman, PhD, and demonstrated that it is stronger than suspected. At the same time, I was reading books and articles about autism and schizophrenia in the popular press and the research literature that suggested to me that this circuit might play a significant role in these disorders. At Brown, I am realizing the opportunity to explore this question.

I am currently working in the lab of Barry Connors, PhD, Professor and Chair of the Department of Neuroscience at Brown University. So far, we have developed an interdepartmental collaboration with another campus lab, which is something that Brown not only has a great atmosphere for, but actively encourages. We are exploring how neural circuitry in a mouse model of autism, in which the aforementioned circuit is selectively disrupted during its critical period of development, changes in these animals relative to controls. I am using two methods in slice electrophysiology: single-cell recording and a form of network-level imaging. My hope is that this work will contribute to the growing body of circuit-level research into psychiatric disease, an area I am particularly excited about because of the inherent potential to direct further mechanistic and therapeutic research by providing structural targets for further investigation at the human level.

As an R25 resident at Brown, Dr. Theyel has received the NIMH Outstanding Resident Award, the BIBS NPNI New Frontiers program grant, and a Resident Poster Award for the Brown Mind Brain Research Day.

Amin Zand Vakili, MD, PhD  
(PGY-2, 2015-2016)

I received my MD from Tehran University and subsequently completed my PhD at Albert Einstein College of Medicine at the Department of Neuroscience. I studied coding of sensory information in the cerebral cortex and how populations of cells at different cortical areas communicate with each other. I introduced a new statistical tool to quantify the coordinated neural activity and explored the significance of neural synchrony in neural signal propagation. My PhD work led to a number of publications and presentations including an article featured in the Neuron Journal. I am interested in expanding my work, exploring the functional cortical connectivity in healthy individuals and in those with mental illness.

Training as a psychiatry resident at Brown has offered me the opportunity to become a clinically competent psychiatrist and to pursue my research goals. Brown University is a neuroscience powerhouse with a unique collaborative environment. There are unparalleled opportunities for research mentorship ranging from basic science to clinical research, and the department as a whole is always available to offer help and guidance when needed.

The R25 training program offers protected research time from the early months of the residency program, and funding is available for educational resources and also for attending scientific meetings and short courses.
Biographical Sketches of Selected Research Faculty

This section includes a sampling of biographical sketches of some research faculty from the Department of Psychiatry and Human Behavior (DPHB). We have also included some biosketches of faculty from other departments at Brown (the Departments of Neuroscience, Neurosurgery, Neurology, Molecular and Cell Biology, Engineering, and Cognitive, Linguistic, Public Health & Psychological Sciences) who do research that is relevant to mental health.

As these biosketches convey, our faculty are distinguished in many ways – by their outstanding research contributions, grant funding, publications, honors and awards, contributions to professional organizations, and other scholarly activities. Most are nationally and internationally recognized for their significant contributions to the field of psychiatry.

Biosketches of additional research faculty could have been included here, but we have tried to keep this publication a manageable size. A listing of additional DPHB research faculty and their grants are included in this booklet (in the section “DPHB Research Funding”). You can access CVs, biosketches, and other information about research faculty at the Brown University Research website: http://vivo.brown.edu/people

While our faculty's research and other scholarly accomplishments are impressive, our faculty is also known for their collaborative spirit, accessibility to trainees, and dedication to mentoring. These characteristics make Brown an outstanding environment for residents and other trainees to obtain a research experience.

Sampling of Faculty Researchers:

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<td>Professor and Chair</td>
<td>Professor (Research)</td>
<td>Professor, Department of Neuroscience</td>
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<td>Dima Amso, PhD</td>
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<td>Gilad Barnea, PhD</td>
<td>Linda Carpenter, MD</td>
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<td>Associate Professor, Department of Neuroscience</td>
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<td>Professor and Vice Chair</td>
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<td>Kevin Bath, PhD</td>
<td>Mary Carskadon, PhD</td>
<td>Karen Furie, MD, MPH</td>
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<td>Assistant Professor, Department of Cognitive, Linguistic &amp; Psychological Sciences</td>
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<td>Cynthia Battle, PhD</td>
<td>Barry Connors, PhD</td>
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<td>Justin Nash, PhD</td>
<td>Professor, Department of Family Medicine</td>
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<td>Teri Pearlstein, MD</td>
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<td>Thomas Serre, PhD</td>
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<td>David Sheinberg, PhD</td>
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<td>Michael Stein, MD</td>
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<td>Laura Stroud, PhD</td>
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<td>Takeo Watanabe, PhD</td>
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<td>Ashley Webb, PhD</td>
<td>Assistant Professor, Department of Molecular Biology, Cellular Biology and Biochemistry.</td>
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Steven Rasmussen, MD
Professor and Chair

Steven A. Rasmussen, MD, MMS is the Chair and Mary Zucker Professor in the Department of Psychiatry & Human Behavior at the Alpert Medical School.

Dr. Rasmussen was a member of the second graduating class of the PLME program and received his MMS and MD from Brown Medical School in 1977. He completed his residency in psychiatry at Yale in 1983. Following a two-year obligation with the National Health Services Corps in North Kingdom Vermont, Dr. Rasmussen joined the Brown University faculty and Butler Hospital in 1983 where he was Medical Director from 1998–2012.

Dr. Rasmussen is an internationally recognized expert in the course and treatment of obsessive compulsive disorder (OCD). More recently his primary research interest has been in developing neurosurgical approaches to intractable OCD and depression and the neurocircuitry of OCD. He has been continuously funded by the NIMH for the past twenty years for his work in the treatment of obsessive compulsive disorder and neuromodulatory treatment for psychiatric conditions. He is also a leader of the Providence VA Center for Neurotechnology and Neurorestoration. The author of 135 peer reviewed publications, he has given many invited presentations on the subject of OCD around the world.

https://vivo.brown.edu/display/srasmussen

Dima Amso, PhD
Associate Professor, Department of Cognitive, Linguistic & Psychological Sciences

Dr. Dima Amso has a BS in Psychology from Tufts University, was trained at Cornell University, and received a PhD in Psychology from New York University in 2005. She then joined the faculty in the Department of Psychiatry at the Weil Medical College of Cornell University, specifically in the prestigious Sackler Institute for Developmental Psychobiology. Since 2010 Dr. Amso has been a member of the faculty of the Department of Cognitive, Linguistic, and Psychological Sciences at Brown University. Her research examines brain and cognitive development in typical and atypically developing populations, with a special emphasis on how environmental variables shape these trajectories. She has authored over 40 scientific publications on the subject and is on the editorial board of three international journals. Dr. Amso holds multiple awards from the National Institutes of Health, Autism Speaks, Brown University’s Norman Prince Neuroscience Institute and the Brown Institute for Brain Science, and is a recipient of the James S. McDonnell Scholar Award.

Wael Asaad, PhD, MD
Assistant Professor, Department of Neurosurgery

Dr. Asaad’s laboratory studies the neural basis of learning, memory and decision-making as well as the study of neural activity in monkeys and in humans undergoing neurosurgical procedures, while they perform on-line learning and memory tasks, in order to understand how the activity of neural populations gives rise to complex behavior.

Dr. Asaad is an expert in the field of systems-level neurophysiology, having completed a Ph.D. in the field and published several papers as first- or second-author in well-respected journals focused on this topic. These papers have characterized the roles of prefrontal neurons during learning and during flexible alterations of behavior such as task-switching, and are among the very first demonstrations that single-neuron activity in this area is not tied to concrete aspects of the task at hand or simple memory for these elements (e.g., ref. 2), but rather may reflect more abstract features of the ongoing behavior such as particular visual-motor associations (Ref. 4), the task context (or “rules”) (ref. 6), or the focus of attention (ref. 3). In addition, this work has helped characterize the changes prefrontal neurons undergo during learning (refs. 3 and 7) and recently reports the widespread representation of unexpected events that motivate learning (specifically, reward prediction errors) in both prefrontal and striatal neurons (ref. 16).

As a practicing functional neurosurgeon, Dr. Asaad sees the need for improved interventions to help those afflicted with neurological diseases, ranging from psychiatric and movement disorders to stroke and traumatic brain injury. Furthermore, this experience provides Dr. Asaad with a concrete understanding of the promises and limitations of certain avenues of investigation as they may ultimately apply to a therapeutic goal.

By combining basic neurophysiology in nonhuman primates with human neurophysiological experiments in the intra-operative and peri-operative settings, Dr. Assad hopes to bridge the gap between the neural basis of cognition in animal models and neural activity observed in human disease, in order to provide mechanistic accounts of those pathological derangements. Ultimately, developing a precise understanding of the neural processes that underlie both normal and abnormal function will lead to improved and rational treatments for such diseases.
**David Badre, PhD**  
Associate Professor, Department of Cognitive, Linguistic & Psychological Sciences

Dr. Badre studies neural mechanisms of cognitive control and memory, with a focus on frontal lobe function and organization, which is relevant to assessing psychopathology and treatment effects. His mentoring includes work with a DPHB fellow on neural substrates of psychiatric symptoms as well as CLPS postdoctoral fellows and graduate students in the Cognitive Science, Psychology, and Neuroscience graduate programs. Dr. Badre is PI on an R01 and 2 foundation grants, and Co-PI on a second R01. Dr. Badre serves on the editorial boards of Psychological Science, Cognitive Science, and Behavioral Neuroscience, and he is Section Editor covering “Executive Function and Cognitive Control” for Neuropsychologia. His research is supported by NINDS and NIMH at the NIH and has been recognized by early career awards, including an Alfred P. Sloan Foundation Fellowship in Neuroscience, a James S. McDonnell Scholar Award in Understanding Human Cognition, and the Cognitive Neuroscience Society Young Investigator Award.

**Gilad Barnea, PhD**  
Associate Professor, Department of Neuroscience

Dr. Gilad Barnea has multidisciplinary training. He received his PhD in Pharmacology from New York University, where he trained with Dr. Joseph Schlessinger, a leader in the Signal Transduction field. For his postdoctoral fellowship, Dr. Barnea moved to Columbia University, where he worked for 10 years with Dr. Richard Axel on the molecular underpinnings of the olfactory system. Dr. Barnea joined the faculty of the Department of Neuroscience at Brown University as an assistant Professor in 2007, and he was promoted to Associate Professor with tenure in 2015. The Barnea lab uses mouse and fly models to study olfaction. The main objective of the lab is to understand how the brain forms an internal representation of the environment and how this representation serves as the basis for the generation of innate versus learned behavioral responses. To address this question, the Barnea lab has developed a new method for tracing and manipulation of neural circuits, a technique viewed by many neuroscientists as the Holy Grail. The Barnea lab is using this new technique to study circuits beyond the olfactory system. Dr. Barnea has published numerous papers in leading scientific journals such as Science, Cell, Neuron and PNAS. His research is supported by several research grants from the National Institutes of Health. He has received several awards and honors, including Pew Scholar in the Biomedical Sciences and Kavli Fellow from the National Academy of Science. He also received twice the EUREKA award from the National Institutes of Health. Dr. Barnea was awarded twice the Innovation award from Brown Institute for Brain Science. Dr. Barnea believes that at this stage of his career, training others is a major way to contribute to society and to pay back for the investments of all the great trainers that he has been fortunate to have.

**Kevin Bath, PhD**  
Assistant Professor, Department of Cognitive, Linguistic & Psychological Services

Kevin Bath, PhD is an Assistant Professor in CLPS and is also the director of the Rodent Neurodevelopmental and Behavioral testing facility at Brown University (rndb.clps.brown.edu). Dr. Bath's program of research examines the impact of early life experiences on neurobehavioral development, particularly socio-emotional development. A core goal of his research is to understand how early life stress alters the trajectory of basic learning processes and its impact on cognitive and emotional outcomes. He is further interested in identifying concomitant deviations in basic neurodevelopmental events that may underlie adverse outcomes. Along with traditional behavioral testing paradigms, Dr. Bath collaborates with Dr. Thomas Serre and they have worked together to develop powerful computer vision tools, to continuously and unobtrusively track rodent behavioral development. This approach represents a revolutionary shift in behavioral testing, providing comprehensive, ethologically relevant, and more readily translatable measures. The ultimate goal of Dr. Bath's work is to improve our understanding of factor that guide typical development of learning and emotional processing and to identify factors that may confer risk or resilience to disease. This work requires an interdisciplinary and vertically integrated approach across species and across phases of development. His training in psychology, expertise in rodent behavior, and molecular and genetic techniques provide novel opportunities and collaborations to examine the effects of these manipulations across multiple levels of analysis and to relate these findings to the human condition.

**Cynthia L. Battle, PhD**  
Associate Professor (Research)

Dr. Cynthia Battle is a licensed clinical psychologist and Associate Professor (Research) in the Department of Psychiatry and Human Behavior at the Warren Alpert Medical School. She received her M.S. and Ph.D. degrees...
from the University of Massachusetts, Amherst, and completed her clinical psychology internship and research fellowship at Brown. Dr. Battle is a member of the faculty both at Butler Hospital, within the Psychosocial Research Program, and at Women & Infants' Hospital, within the Division of Women's Behavioral Health. Much of Dr. Battle's research focuses on women's mental health during pregnancy and the postpartum period, including development and evaluation of non-pharmacologic interventions for women with perinatal mood disorders and other mental health conditions. She is interested in developing approaches to mental health care that are more accessible and acceptable to perinatal women, including women from diverse racial, ethnic, and socio-economic backgrounds. Dr. Battle's research has been funded by grants from the National Institute of Mental Health, the National Institute of Nursing Research, and National Institute of Child Health and Human Development, the Brown / Women & Infants' Hospital Center for Excellence in Women's Health, and the Radcliff Institute of Harvard University. Dr. Battle is currently the PI of three NIH-funded research grants focused on women's perinatal mental health and serves as a collaborator on several other projects. In recent years she has received awards from the North American Society for Psychosocial Obstetrics and Gynecology and the North American Society for Obstetric Medicine. She is an active member of national and international organizations focused on women's mental health, participates regularly on NIH grant review panels, and serves on the editorial board for the Archives of Women's Mental Health.

Beth Bock, PhD
Professor (Research)

Beth Bock, PhD is a Professor (Research) in the Department of Psychiatry & Human Behavior, Centers for Behavioral and Preventive Medicine at The Alpert Medical School and The Miriam Hospital. Her primary research interests are in examining innovative interventions for smoking cessation, exercise promotion, and the use of computer-based technologies in behavior change. She has been Principal Investigator on two studies examining the use of text message based interventions for smoking cessation (R21 DA027142) and alcohol harm reduction in community college students (R21 AA021014). She is currently Principal Investigator on a research study funded by the National Cancer Institute that examines the impact of changes in the electronic health record to promote smoking cessation intervention by emergency department physicians (R01 CA156699), and is also conducting a study testing the efficacy of exercise videogames compared to standard exercise for reduction of cardiovascular risk factors (R01 HL109116). Dr. Bock's work has demonstrated the effectiveness of computer tailored interventions for smoking cessation delivered in medical settings (Bock et al., 2010) and over the internet (Bock et al., 2008), as well as smoking cessation treatments designed to be delivered through text messaging (Bock et al., 2013, Bock et al., in press). She and her colleagues have pioneered novel methodologies of developing intervention content to be culturally consistent with groups of technology users (Bock, Rosen et al., 2014). Dr. Bock has helped to shape the science of behavioral interventions by serving on the NIH study section Psychosocial Risk and Disease Prevention Study Section (PRDP). She currently sits on the faculty promotions committee for the DPHB and the committee for medical faculty affairs (CMFA) at the medical school.

Willoughby Britton, PhD
Assistant Professor (Research)

Dr. Britton earned a B.A. in Neuroscience from Colgate University in 1996 and a Ph.D. in Clinical Psychology from the University of Arizona in 2007. She is the recipient of two National Research Service Awards (NRSA) and a Career Development Award (CDA) from NIH. She is currently the Director of Brown's Clinical and Affective Neuroscience Laboratory (www.brittonlab.com) which investigates the psychophysiological (EEG, EMG, EKG) and neurocognitive effects of cognitive training and mindfulness-based interventions for mood and anxiety disorders. Research questions investigate which cognitive training practices are best or worst suited for which types of conditions and why, moderators of treatment outcome, practice-specific effects, and adverse effects. Current NIH-funded studies include a 3-armed RCT entitled “Dismantling Mindfulness” that compares the effects of three different types of meditation training programs on pre-frontal cortex functioning in depression; and a collaborative infrastructure grant (UH2) with Harvard and UMASS entitled “Mindfulness Influences on Self-Regulation: Mental and Physical Health Implications.”
Larry Brown, MD
Professor

Larry K. Brown, MD is a board-certified child and adolescent psychiatrist. His research focuses on HIV risk and the efficacy of HIV prevention treatments among adolescents and young adults and improving medical adherence and the mental health of those living with HIV. He is the Principal Investigator of several major projects funded by National Institute of Mental Health (NIMH) and National Institute of Child Health & Human Development (NICHD). He is also the Program Director of a NIMH training program in adolescent and young adult biobehavioral HIV research.

One of Dr. Brown's current NIMH-funded adolescent HIV prevention projects developed and is evaluating the impact of a family-based intervention to increase family communication and parental monitoring of adolescent activities for youth in mental health treatment. Another study is a randomized trial of family-based CBT and HIV prevention for juvenile offenders. His HIV prevention program in therapeutic schools has received the Reiger Award from the American Academy of Child and Adolescent Psychiatry for the best scientific paper published in the Academy's journal in 2011. Several projects are focused on young adults living with HIV. His studies in the Adolescent AIDS Trials Network are testing interventions to reduce depression and substance use. Also, a NICHD-funded project is developing and testing a mobile game app to improve medical adherence. The laboratory provides training in HIV clinical research for medical students, psychiatry residents, clinical psychology interns and post-doctoral fellows.

http://www.brown.edu/Departments/BRUNAP/
http://www.lifespan.org/services/childhealth/research/interests/hiv/default.htm

Michael Carey, PhD
Professor (Research)

Michael P. Carey, PhD is the Director of the Centers for Behavioral and Preventive Medicine at the Miriam Hospital, and a Professor, Research Scholar Track, in the Departments of Psychiatry and Human Behavior (Medicine) and Behavioral and Social Sciences (Public Health). He is a licensed clinical psychologist, an elected member of the International Academy of Sex Research, and a Fellow of the American Psychological Association, the Association for Psychological Science, and the Society for Behavioral Medicine.

Dr. Carey's research focuses on health promotion and disease prevention through behavior change. He has conducted research on sexual health promotion and risk reduction, tobacco and alcohol use, stress management, and coping with chronic illness. Currently, Dr. Carey is Principal Investigator (PI) on the Health Improvement Project-Rochester, a collaboration involving colleagues at Brown University, Syracuse University, the University of Rochester, and the Monroe County Health Department. The long-term objective of this NIH-funded project is to develop a feasible and effective HIV prevention strategy for use in public STD clinics. He is also PI on two R34 grants to develop behavioral interventions for young women, and for people living with HIV. He is a Co-Investigator on several other NIH-funded projects that address HIV testing in the emergency department, sexual risk for women with a history of sexual abuse as well as young men who have sex with men, binge drinking among young adults, alcohol use and HIV risk, and related topics. Over his career, Dr. Carey has been PI or Co-Investigator on more than 50 grants.

Dr. Carey has published more than 375 papers and chapters and 2 books. Dr. Carey currently serves on several editorial boards; he has reviewed for 80 professional journals, multiple NIH institutes, and the Centers for Disease Control and Prevention. He has served on the Board of Directors of the Society for Behavioral Medicine (SBM) and the Health Psychology Division of the American Psychological Association, and has received special service awards from SBM and Syracuse University.

As an educator, Dr. Carey has taught undergraduate and graduate students, and served as the primary advisor for doctoral students, postdoctoral fellows, and junior faculty. Many of his undergraduate mentees have gone on to graduate or medical school, and all of his doctoral students and fellows have held primary or secondary academic appointments, or work in research grant administration. Many former students have earned grants from the NIH and other sponsors.

Linda Carpenter, MD
Professor

Linda L. Carpenter, MD is a Professor of Psychiatry in the Alpert Medical School of Brown University and Chief of the Mood Disorders Program at Butler Hospital. Dr. Carpenter completed her undergraduate degree in Honors Psychology at the University of Michigan, and subsequently worked as a research assistant in the Mood Disorders Research Program at the Western Psychiatric Institute in Pittsburgh, concurrently completing post-
baccalaureate premedical coursework at the University of Pittsburgh. She obtained her MD from the University of Pennsylvania in 1992 and went on to complete an internship in internal medicine, a residency program in psychiatry, and a clinical neuroscience research fellowship at Yale University in 1997. She joined the faculty at Brown in 1997.

Dr. Carpenter has been recognized for her work investigating the neurobiology of, and new treatments for, major depression and other mood and anxiety disorders. Dr. Carpenter has conducted studies of novel pharmacotherapies and neuromodulation treatments (VNS, TMS, DBS) for pharmacoresistant depression. Her federally funded translational research program focuses on the development of viable neuroendocrine and inflammatory biomarkers signaling mood/anxiety disorders risk that can be measured in a standard outpatient laboratory setting, and how adverse early life environment and genetic vulnerability impact to increase risk for depression and anxiety disorders.

http://bms.brown.edu/DPHB/faculty/ facultypage?id=11009238419
http://www.butler.org/body.cfm?id=341
http://www.butler.org/body.cfm?ID=411

Mary Carskadon, PhD
Professor

Mary A. Carskadon, PhD is an authority on adolescent sleep and circadian rhythms. Dr. Carskadon serves as director of the Chronobiology and Sleep Research Laboratory at Bradley Hospital and is a Professor of Psychiatry & Human Behavior at the Alpert Medical School. Carskadon's early research with her graduate mentor, William C. Dement, culminated in the development and application of a standardized measure for daytime sleep tendency, the multiple sleep latency test. A major focus of Dr. Carskadon's scientific activities is research examining interrelations between the circadian timing system and sleep/wake patterns of children, adolescents, and young adults. Her findings have raised public health issues regarding the consequences of insufficient sleep for adolescents as well as concerns about early starting times of schools. Her work has affected education policy, prompting the AAP to promote later school timing for adolescents and many school districts to delay school start times for high school students.

Carskadon's current research includes a prospective study of depressed mood and serotonergic genes in first-year college students; an assessment of intrinsic circadian period and sleep homeostasis in adolescents; an evaluation of how sleep and circadian timing influence smell, taste, food choices, and food consumption in overweight and normal weight teens; and development of “smart lighting” to improve academic outcomes in secondary school students. Proposed new projects seek to (1) assess genetic variance in sleep patterns and alcohol use in young adults, (2) assess shared genetic variance in sleep patterns and mood outcomes in emerging adults, and (3) evaluate epigenetic changes related to sleep patterns and depressed mood.

Dr. Carskadon is a distinguished alumna of Gettysburg College and holds a doctorate in neuro- and bio-behavioral sciences from Stanford University, with a specialty in sleep research. She is a past president of the Sleep Research Society and is a co-founder of the Northeastern Sleep Society and organized the Women in Sleep Research interest group of the SRS/. Dr. Carskadon has received awards from several national organizations recognizing her scientific, educational, and public policy contributions. She is an elected Fellow of the Association for Psychological Science and of the American Association for the Advancement of Science.

http://www.research.brown.edu/research/profile. php?id=1100923842

http://www.sleepforscience.org


Barry Connors, PhD
Professor and Chair, Department of Neuroscience

Dr. Connors studies the neocortex, the thalamus, and their interactions, with an emphasis on the physiological properties of their neurons, synapses, and local circuits, especially as they relate to synchrony and rhythms of the forebrain and the neural mechanisms of seizures, neurodevelopmental disorders, and DBS. He is PI on a postdoctoral T32 training grant; 13 of his former trainees have successfully gone on to faculty positions in Neuroscience, and all remain in scientific careers. He is currently a mentor of one of the Pilot Program PGY1 residents. Dr. Connors is PI on several research grants from NSF, NIH, and DARPA.
Daniel Dickstein, MD
Associate Professor

Daniel Dickstein, MD directs Bradley Hospital’s Pediatric Mood, Imaging, & NeuroDevelopment Program (PediMIND program). He is also the associate director for research at Bradley Hospital. He is currently an Associate Professor in the Department of Psychiatry & Human Behavior and also in the Department of Pediatrics at the Alpert Medical School of Brown University.

The overarching goal of Dr. Dickstein’s research is the identification of brain/behavior interactions underlying developmental psychopathology. His research has focused primarily on pediatric bipolar disorder (BD), both defining specific neurobiological alterations in BD youths vs. healthy controls and also vs. those whose primary psychopathology is often comorbid to BD - i.e., those with primary attention deficit hyperactivity disorder (ADHD) or generalized anxiety disorder (GAD). He is also the PI of an NIMH BRAINS R01 grant aimed at differentiating those with full-blown type I BD vs. those with sub-syndromal BD ”not otherwise specified” working in synergy with the longitudinal Course and Outcome of Bipolar Youth Study (COBY; 2R01MH059929-11).

In addition, his lab has several pilot projects to evaluate bio-behavioral markers in other important child psychiatric disorders, including differentiating (i) teen suicide attempters vs. those involved with self-cutting; and also (ii) those with Autism from those with Asperger’s Disorder.

Primary techniques used by his PediMIND group include (a) multi-modal magnetic resonance imaging (structural MRI, functional MRI, resting-state functional connectivity MRI (RSFC), and diffusion tensor imaging (DTI)), (b) behavioral tasks translationally informed from an affective neuroscience perspective, (c) detailed phenotyping by semi-structured psychiatric interviews, and (d) genetic moderators.

http://pedimind.lifespan.org

Susan Dickstein, PhD
Associate Professor

Susan Dickstein, PhD is an Associate Professor in the Alpert Medical School, Department of Psychiatry & Human Behavior, and Director of Bradley Hospital Early Childhood Clinical Research Center, a center devoted to the integration of clinical service delivery and research practice to promote optimal mental health care for young children (birth to five years old) and their families. Dr. Dickstein has pursued a thematic line of research focused on the importance of multiple levels of the family context for understanding early childhood development, has applied a family-focused perspective to examine processes that explain optimal and non-optimal development in infants, toddlers, and preschoolers who develop in risk contexts. Dr. Dickstein has collaborated on several NIH grants within the realm of developmental psychopathology, attachment theory, family risk, maternal depression, and early childhood mental health issues. Most recently, Dr. Dickstein is co-PI on a SAMHSA systems initiative, Project RI LAUNCH (Linking Actions for Unmet Needs in Children’s Health) – aimed at building social behavioral capacities into community-based early childhood systems of care in order to promote and integrate physical and behavioral health wellness. Dr. Dickstein has maintained a variety of state and federal-funded contracts to provide community based early childhood mental health consultation, evidence based preventive interventions, professional development, and program evaluation within pediatric and child care settings serving high risk infants, toddlers, preschoolers, and their families, including Head Start and Early Head Start. Dr. Dickstein is founding member and co-President of the Rhode Island Association for Infant Mental Health.

http://projectlaunch.promoteprevent.org/
www.riaimh.org

John Donoghue, PhD
Professor, Department of Neuroscience

Dr. Donoghue investigates how the brain turns thought into voluntary behaviors and how neuronal ensembles represent complex information. His lab developed novel multi-electrode recording arrays and designs brain-computer interfaces that may be used as neural prosthetics to restore movement to paralyzed humans. This technology will inform the next generation of devices to treat psychiatric disorders. Dr. Donoghue, a Fellow of the American Association for the Advancement of Science, received the Discoverer Award in 2004 for his work on brain-machine interfaces. He is funded by an R01.
Gary Epstein-Lubow, MD
Assistant Professor

Dr. Gary Epstein-Lubow is an academic geriatric psychiatrist with ten years of experience providing high-quality hospital care to persons with severe neuropsychiatric symptoms. Dr. Lubow is a national expert regarding family caregiving, and a policy advocate for dementia care quality. His research experience in psychosocial treatment development includes the testing of new interventions delivered directly to patients, caregivers, and patient-caregiver dyads. Teaching activities include program leadership and clinical supervision for medical students, residents and fellows.

Dr. Lubow completed his general psychiatry residency, geriatric psychiatry fellowship and postdoctoral research fellowship at Brown University. Dr. Lubow is an Assistant Professor in the Department of Psychiatry & Human Behavior and the Department of Medical Science at the Warren Alpert Medical School of Brown University, and Assistant Professor of Health Services, Policy & Practice at the Brown University School of Public Health. Dr. Lubow served for nine years as Assistant Unit Chief for Geriatrics at Butler Hospital, where he continues to work as a staff psychiatrist.

Dr. Lubow has written and contributed to publications regarding the nature and treatment of dementia and geriatric depression, the prediction of depression in family caregivers, biological markers in neuropsychiatric syndromes, and the use of mindfulness and yoga as treatment strategies for depression. Dr. Lubow has taught and supervised medical students, general psychiatry residents, geriatric psychiatry fellows, and geriatric medicine fellows. Dr. Lubow served as co-director of the Alpert Medical School's Scholarly Concentration in Contemplative Studies. Dr. Lubow developed and directed a Quality Improvement and Patient Safety curriculum for general psychiatry residents. Dr. Lubow's current teaching focus is as Assistant Director of the Alpert Medical School's Longitudinal Integrated Clerkship in the Primary Care – Population Medicine program.

http://research.brown.edu/research/profile.php?id=1224616684

Justin Fallon, PhD
Professor, Department of Neuroscience

Dr. Fallon studies developmental neurobiology and the mechanisms underlying neurological disease. He conducts research on fragile X syndrome and autism, exploring the function of a specific synaptic protein, FMRP, and its involvement in autism spectrum disorders. Dr. Fallon has been an active mentor for many years, and many pre- and postdoctoral trainees are now in faculty positions. Dr. Fallon is funded by an NIH U01 grant.

Michael Frank, PhD
Associate Professor, Department of Cognitive, Linguistic & Psychological Sciences

Michael J. Frank, PhD is Associate Professor of Cognitive, Linguistic & Psychological Sciences and Psychiatry and Human Behavior and is affiliated with the Brown Institute for Brain Science at Brown University. He directs the Laboratory for Neural Computation. He received his PhD in Neuroscience and Psychology in 2004 at the University of Colorado, following undergraduate and master's degrees in electrical engineering and biomedicine (Queen's University (Canada) and University of Colorado).

Dr. Frank's work focuses primarily on theoretical models of frontostriatal circuits and their modulation by dopamine, especially in terms of their cognitive functions and implications for neurological and psychiatric disorders. The models are tested and refined with experiments involving pharmacological manipulation, deep brain stimulation, EEG, fMRI and genetics. Awards include the Cognitive Neuroscience Society Young Investigator Award (2011), the Janet T Spence Award for early career transformative contributions (Association for Psychological Science, 2010) and the DG Marquis award for best paper published in Behavioral Neuroscience (2006). Dr Frank is a member of Faculty of 1000 (Theoretical Neuroscience section), and serves as an editor of eLife and Behavioral Neuroscience.

http://ski.clps.brown.edu/inthenews.html
Gregory Fritz, MD
Professor and Vice Chair

Gregory Fritz, MD is the Academic Director of Bradley Hospital. He is also a Professor and Vice Chair in the Department of Psychiatry & Human Behavior at the Alpert Medical School and the Director of Child and Adolescent Psychiatry at Rhode Island Hospital. He is an expert on emotional difficulties confronting children and adolescents, particularly those with asthma and other medical disorders. He is also a national authority on the shortage of child mental health professionals and on pediatric integrated care.

Dr. Fritz has been either the principal investigator or co-investigator of more than 25 grant-funded research projects since 1981. In recent years, these projects have tended to focus on asthma-related studies. For example a recent study entitled “Pediatric Asthma Disparities: Perceptions and Management,” (funded by the National Heart, Lung and Blood Institute) examined the factors leading to the greater prevalence and severity of asthma in Hispanics compared to Caucasian children. A companion grant allowed similar studies at the University of Puerto Rico for an interesting comparison group.

Dr. Fritz has written extensively in peer-review publications about children with chronic illnesses like asthma, diabetes, cancer or AIDS, and the psychological problems that co-exist with them. Fritz has also explored building collaborative relationships between pediatricians and child psychiatrists. He has written a number of textbook chapters and co-authored a book, Mental Health Consultation in Hospitals, Schools and Court.

Dr. Fritz also writes for more general readership. He is the editor of the Brown University Child and Adolescent Behavior Letter (CABL), and regularly contributes commentary on topics as diverse as helping children deal with war and terrorism, and inhalant abuse among children. Dr. Fritz’s contributions to CABL have frequently been reprinted in the media.

Among the honors that Dr. Fritz has accumulated, including a listing in The Best Doctors in America, are two awarded 20 years apart: Outstanding Teaching Award from the child psychiatry department of Stanford University School of Medicine in 1981, and Outstanding Teaching Award in Medical School Education, from the Department of Psychiatry & Human Behavior at the Alpert Medical School of Brown University in 2001. He also received the Simon Wile Award from the American Academy for Child and Adolescent Psychiatry (AACAP) for Leadership in Consultation Liaison Psychiatry in 1998 and was the organization’s winner of the 2012 Irving Phillips Award for Prevention. Dr. Fritz is currently President Elect of the AACAP and will become President in Oct. 2015 for a two year term.

Karen Furie, MD, MPH
Professor and Chair, Department of Neurology
Professor of Clinical Neuroscience

Karen Furie, MD is Neurologist-in-Chief at Rhode Island Hospital, The Miriam Hospital and Bradley Hospital and the Samuel I. Kennison, MD, and Bertha S. Kennison Professor of Clinical Neuroscience and Chair of Neurology at The Warren Alpert Medical School of Brown University. Dr. Furie’s research career has been focused on the diagnosis and prevention of ischemic stroke. Her research has been built on two platforms, clinical trials in stroke prevention, and translational biomarker research. Dr. Furie has had continuous NIH and foundation support for this research throughout her career. Dr. Furie’s research endeavors have defined optimal antithrombotic therapy for stroke prevention, clarified the role of high dose vitamins for treatment of hyperhomocysteinemia, and provided insight into the pathophysiology of ischemic stroke. Dr. Furie was the principal investigator of the NINDS P50 Partners Specialized Program of Translational Research in Acute Stroke (SPOTRIAS) and the American Heart Association supported Harvard Bugher Center for Stroke Prevention and Genetics Research, and the Principal Neurologist on the Insulin Resistance Intervention after Stroke trial. Dr. Furie’s clinical trial engagement now extends to stroke prevention interventions in cardiac surgery through her involvement with the NHLBI-NINDS funded Cardiothoracic Surgery Network (CTSN). Dr. Furie’s most research interest has been on the interaction between oxidative stress and matrix metalloproteinases in acute stroke. We are exploring dietary factors as they contribute to basal antioxidant capacity, and exploring in vivo effects of acute and chronic inflammation on oxidative stress. Furthermore, we have developed a unique semi-automated process for analyzing white matter disease, a silent and insidious manifestation of cerebrovascular disease, which will enable us to identify the contributions of genetic polymorphisms, oxidative stress, and cerebral blood flow on the pathophysiology of this process. Dr. Furie’s research has also provided evidence that sophisticated neuroimaging techniques such as computed tomography (CT) angiography and CT perfusion improve prognostication in the acute stroke setting. Dr. Furie has used MRI for carotid plaque characterization as a tool for risk stratification and as a surrogate endpoint for clinical trials.
Ziya Gokaslan, MD, FACS, FAANS
Professor and Chair
Department of Neurosurgery

Dr. Gokaslan is a world-renowned expert in the surgical treatment of spinal column, spinal cord and sacral tumors and complex spinal reconstruction. He has made numerous contributions to the understanding of biology of these neoplasms and developed novel surgical resection and reconstruction techniques resulting in significant improvement in the outcome and survival of these patients.

Dr. Gokaslan can be best described as one of the most influential spinal tumor surgeons and clinical researchers in the world. He was most recently awarded Leon Wiltse Award by North American Spine Society for excellence in leadership and clinical research for spine care. He has helped define spinal oncology as a distinct subspecialty in spinal surgery and is currently the Gus Stoll Professor and Chair of the Department of Neurosurgery at the Warren Alpert Medical School of Brown University, Neurosurgeon-in-Chief at the Rhode Island Hospital and The Miriam Hospital. He is also the Clinical Director of Norman Prince Neurosciences Institute.

Richard Goldberg, MD
Professor

Richard Goldberg, MD earned his undergraduate degree from Cornell University before being awarded his MD from the State University of New York at Buffalo. He interned at the Albert Einstein Medical Center in Philadelphia and completed his psychiatry residency at Yale University. He also has a Master's of Science degree in Healthcare Management from the Harvard University School of Public Health.

Dr. Goldberg is a Professor of Psychiatry & Human Behavior at the Alpert School of Medicine of Brown University and is Psychiatrist-in-Chief at both The Miriam and Rhode Island Hospitals. He also serves as Senior Vice President at Lifespan for Psychiatry and Behavioral Health. His research interests involve assessment of clinical and financial outcomes, and issues in financing new models of care. He also has an interest in the interdisciplinary study of chronic pain.

Benjamin Greenberg, MD, PhD
Professor

Dr Greenberg's background includes psychology (BA, Amherst College), neuroscience (PhD, UC San Diego), and medicine (MD, University of Miami). He was a neurology resident at Columbia University, and completed psychiatry residency at Johns Hopkins Hospital. He was a fellow and later Chief of adult OCD research at the NIMH (intramural program). His primary research since 2000 has been psychiatric neurosurgery, for which he is internationally recognized. Other ongoing work includes behavioral dimensions key to psychiatric symptoms and responses to treatment, including extinction of fear and competition between behaviors directed at reward and avoidance. He currently leads a multicenter trial of deep brain stimulation (DBS) for intractable OCD, and Co-Directs an NIMH Conte Center for Translational Research on the neural network of DBS in OCD, focusing on anatomical, behavioral, and neuroimaging studies on mechanisms of action of psychiatric neurosurgeries and prediction of treatment outcomes.

Most recently, Dr. Greenberg has assumed a leadership role in the Brown-affiliated Center of Excellence for Neurorestoration and Neurotechnology at the Providence VA Medical Center. There, he leads development of clinical research using noninvasive transcranial electrical and magnetic stimulation for illnesses representing major health burdens for Veterans. These include PTSD, chronic pain, depression, and traumatic brain injury. Dr. Greenberg is also Medical Director of the Brown Brain Stimulation Facility on the Butler Hospital campus, which is available for clinical research to Brown-affiliated faculty.

Leigh Hochberg, MD, PhD, FAAN, FANA
Professor, School of Engineering

Dr. Hochberg's neurotechnology research focuses on restoring communication, mobility, and independence for people with paralysis or limb loss. He directs the pilot clinical trial of the BrainGate2 Neural Interface System. The technology he and his colleagues are developing for restoring movement will also be used for the next generation of devices to treat psychiatric disorders. Dr. Hochberg has several teaching awards, and he has received Exemplary Teaching awards/recognition from Brown Medical School 8 times. He is funded by a variety of federal and foundation sources, including an R01 grant from NIDCD and a Merit Review Award from the Department of Veterans Affairs. He also directs the VA Center for Neurorestoration and Neurotechnology at Providence VAMC.
Elissa Jelalian, PhD  
Associate Professor  
Dr. Elissa Jelalian's research focuses on weight regulation and development of behavioral interventions for overweight/obese children and adolescents. She has been funded by multiple NIH institutes to examine innovative interventions that examine the role of peers and parents in adolescent weight control. Her current research program focuses on development of novel interventions for treatment of overweight adolescents with mood disorders as well as dissemination of weight control interventions to community settings. A long-range goal of her programmatic research is to develop more effective weight control interventions for adolescents as well as to examine strategies for dissemination.

Richard Jones, ScD  
Associate Professor  
Dr. Jones is an epidemiologist with a substantive research interest in cognitive aging, dementia and aging and mental health. He conducts research in dementia, delirium, cognitive aging, and cognitive or brain reserve. He has special interest in the effect of environmental and experiential influences on adult cognitive development. His main methodologic research is directed at the application of psychometric and latent variable models such as item response theory and structural equation models in the area of cognitive reserve, cognitive aging and dementia. Dr. Jones is the Director of the Quantitative Science core at Brown. This is a quantitative service core serving the Department of Psychiatry and Human Behavior, the Department of Neurology, the Norman Prince Neuropsychiatric Institute of Rhode Island Hospital, and the VA Center of Excellence for Neurorehabilitation and Neurotechnology of the Providence Veterans Administration Medical Center. He serves as senior associate editor for Alzheimer’s & Dementias: Diagnosis and Disease Monitoring, biostatistics editor for Alzheimer’s & Dementia, and as an assistant editor for biostatistics at the Journal of the American Geriatrics Society.

Christopher Kahler, PhD  
Professor, Department of Behavioral and Social Sciences, School of Public Health  
Dr. Kahler is Professor and the Chair of the Department of Behavioral and Social Sciences in the Brown University School of Public Health. He received his PhD in 1998 from Rutgers University and joined the Brown faculty that year. Dr. Kahler’s work focuses on (a) the development of novel smoking cessation treatments, (b) the etiology and treatment of combined heavy drinking and smoking, and (c) the role of alcohol in the treatment of HIV infection. He has recently been the Principal Investigator on an NIAAA-funded laboratory study on alcohol administration and smoking relapse risk, an NIAAA-funded randomized clinical trial of naltrexone for at-risk and problem drinkers seeking smoking cessation treatment, and an NCI-funded treatment development project to adapt Positive Psychotherapy for use in smoking cessation treatment. He is also the Scientific Director of the NIAAA-funded Alcohol Research Center on HIV (ARCH) and is PI of a major research component evaluating a brief alcohol intervention in a primary care setting for HIV-infected men who have sex with men. Finally, he is PI of an NIAAA-funded project to investigate mechanisms of behavior change in combined alcohol-HIV intervention studies. His most recent publications focus on (a) the effects of alcohol use on smoking behavior, (b) the application of positive psychotherapy to smoking cessation, and (c) the role of alcohol use in high risk sexual behavior in HIV-infected men who have sex with men.

Hung-Teh Kao, MD, PhD  
Associate Professor (Research)  
Dr. H.T. Kao received his MD from the University of Manitoba in Canada, his PhD in molecular biology from the Rockefeller University, and psychiatry residency training at Stanford University. He joined Butler Hospital and the faculty at Brown University in 2007. Dr. Kao’s primary research focuses on basic mechanisms of signal transduction in neurons and the molecular bases of major psychiatric disorders.

Research underway in Dr. Kao’s lab include: (1) role of membrane rafts in neuronal signaling and relationship to neuropsychiatric disorders (with Dr. Barbara Porton); (2) biomarker discovery for psychiatric disorders (markers of aging such as telomere length and mitochondrial copy number, in collaboration with Drs. Audrey Tyrka, Lawrence Price, Linda Carpenter, and Noah Phillip; gene
expression profiling focusing on glutamate physiology, in collaboration with Drs. Ben Greenberg, Steve Rasmussen, and Barbara Porton]; (3) development of modulatable genetically-encoded fluorescent probes to detect phosphorylation or transport within cells.

**Karla Kaun, PhD**  
Assistant Professor, Department of Neuroscience

Dr. Karla Kaun received a BSc in Psychology from the University of British Columbia, and a PhD in Zoology from the University of Toronto. She completed her post-doctoral work at the University of California, San Francisco and HHMI Janelia Research Campus. Since 2013, Dr. Kaun has been a member of faculty of the Department of Neuroscience. Her research examines the genetic, molecular and neural mechanisms underlying drug and alcohol cravings. Using the powerful molecular genetic tools available in the fruit fly, she is currently developing new methods to study reward memory, mapping circuits for memories of the aversive and appetitive properties of alcohol, and investigating the molecular mechanisms within these circuits that affect neuronal plasticity and function. Due to the interdisciplinary nature of her work, Dr. Kaun trains mentees in multiple programs including: 1) Neuroscience, 2) Molecular Biology, Cell Biology and Biochemistry, 3) Molecular Pharmacology and Physiology, and 4) Biotechnology. Dr. Kaun holds career development awards from the Idea Network of Biomedical Research (INBRE) and Centers of Biomedical Research (COBRE), an award from the Rhode Island Foundation and is a recipient of the Smith Family Award for Excellence in Biomedical Research. For more information please visit www.kaunlab.com.

**Gabor Keitner, MD**  
Professor

Dr. Gabor Keitner’s research interest is in providing and assessing comprehensive treatments for mood disorders including pharmacotherapy, psychotherapy, and family therapy. He conducts pharmacological clinical trials and is an international authority on family therapy and combined (biological and psychosocial) treatments. He is also investigating the effectiveness of disease management models for treatment resistant depressions and bipolar disorders.

Dr. Keitner recently completed a double blind placebo controlled study that showed that augmenting antidepressants with risperidone in patients with difficult-to-treat depression led to a significantly higher remission rate, faster recovery, better odds of remission, and better quality of life than placebo augmentation.

Dr. Keitner has completed a RCT evaluating the effectiveness of a depression disease management program (the management of depression-MOD, consisting of resetting expectations, focusing on functioning rather than symptoms, education, lifestyle changes, coping skills, and social support) for those patients continuing to experience distressing depressive symptoms in spite of adequate antidepressant treatment. The MOD treatment protocol is being adjusted to include a telehealth component.

A recently completed study, evaluated the functioning of families in the Southern New England Community. The goal was to update family functioning norms for the Family Assessment Device (FAD) a self report inventory of family functioning that has been translated into 27 languages and is being used worldwide. We are continuing to investigate the relationship between family functioning, social support, life events, quality of life, and sociodemographic variables.

A study of the relationship between family functioning and major depression in different cultures is also actively underway. Participating countries include; Taiwan, China, Egypt, United Arab Emirates, Hungary, England, and USA. The functioning of families with a depressed family member will be compared with the functioning of families who do not have a psychiatrically ill family member. Comparisons will be made within and between cultures.

We have also developed a brief mental health outcome measure (The Brief Multidimensional Assessment Scale –BMAS) to evaluate patient status and the perceived effectiveness of medical treatments. This four question scale evaluates patient perception of symptoms, functioning, quality of life and relationship satisfaction. It takes less than one minute to complete and can be used in any type of clinical setting for any kind of illness.

**Martin Keller, MD**  
Professor Emeritus

Martin Keller, MD served as the Mary E. Zucker Professor and Chairman of the Department of Psychiatry & Human Behavior (DPHB) at Brown Medical School, and Executive Psychiatrist-in-Chief at the seven Brown affiliated hospitals, from 1989 until June 30th, 2009. He currently serves as Professor Emeritus in the DPHB and also serves as the Chief of Academic Strategic Planning and Director, Mood and Anxiety Disorders Research Program at Butler Hospital.
Dr. Keller has made fundamental contributions to developing standardized, replicable, and verifiable methods for assessing time to recovery, relapse, recurrence, and chronicity of episodes of mood and anxiety disorders, and the level of symptomatology and well-being over long periods of time. These measures have been integrated with the concurrent assessment of psychosocial functioning, morbidity, and mortality, and the psycho-pharmacologic and psychosocial treatments received by patients during periods of illness and when well. A major advance was the creation of the Longitudinal Interval Follow-Up Evaluation (LIFE), which prospectively assesses psychopathology over time and has been used by other scientists in more than 1000 research, programs in the United States and internationally.

Dr. Keller has received more than 25 research grants from the National Institutes of Health and numerous grants from research foundations and the pharmaceutical industry. He recently completed a 33 year long-term, prospective follow-up study involving more than 950 adults with mood disorders, over 5,000 relatives and 500 controls and a 25 year study of more than 700 adults with anxiety disorders seen in a psychiatric setting. Currently ongoing are separate prospective long term follow-up studies of more than 550 adults with anxiety disorders seen in a general medical setting; 450 children and adolescents with bipolar disorder; and 525 adults with an anxiety disorder consisting of matched cohorts of Latinos, African Americans and Whites. He also directed numerous multi-institutional randomized clinical trials that investigate the safety and efficacy of antidepressant agents and psychotherapy with adults and adolescents with bipolar and unipolar illness; several multi-site studies of the acute, continuation, and maintenance treatments of chronic major depression and double depression; and a separate long-term study on recurrent depression.

He served as Chairman of the Scientific Advisory Board of the National Depressive and Manic Depressive Association from 1995 to 1998, and is currently a member of its scientific advisory board; and has been a participant or Chair on numerous committees of the National Institute of Mental Health (NIMH). From 1988 to 1994, Dr. Keller was Co-Chair of the American Psychiatric Association Task Force on Mood Disorders for DSM-IV. He is a fellow of the American College of Neuropsychopharmacology, and served as Chair of the Program Committee for the 2000 meeting. Currently, he is a member of the scientific counsels of the American Foundation of Suicide Prevention and NARSAD. He serves as Chair of the scientific advisory board of the JED Foundation (whose mission is suicide prevention) and served as a member of its board of directors for many years.

Dr. Keller was co-editor of the International Journal of Clinical Psychopharmacology and was editor for clinical therapeutics of Neuropsychopharmacology. He served on the editorial board of the Journal of Clinical Psychiatry, the Journal of Affective Disorders, and the journal Depression and Anxiety; and is currently a reviewer for numerous journals. He has published over 550 original peer-reviewed journal articles, book chapters, reviews, and editorials.

Dr. Keller has received numerous awards for his work, including the 1997 Award for Research in Psychiatry from the American Psychiatric Association for his research on the longitudinal course and neuropsychopharmacology of affective disorders and anxiety disorders; the 1998 National Alliance for Research on Schizophrenia and Depression (NARSAD) Lieber Award for research on the causes, pathophysiology, treatment, and prevention of depression; and the 1999 Klerman Lifetime Research Award from the National Depression and Manic Depression Association. He also received the 2001 American College of Psychiatrists (ACP) Mood Disorders Lifetime Research Award for major research contributions to the understanding and treatment of mood disorders and the 2003 Edward A. Strecker Award from Pennsylvania Hospital and the University of Pennsylvania Health System for his outstanding contribution to the field of clinical psychiatry in the United States. In 2005 Dr. Keller received the Voice of Mental Health Award from The Jed Foundation for his contributions in the area of suicide prevention. In 2009 he received the Annual Distinguished Chair of Psychiatry Award from the Summit of Psychiatry Chairs in recognition of achievements and contributions of a U.S. Chair of Psychiatry. He was also named Distinguished Life Fellow in the American Psychiatric Association. He was honored by the Warren Alpert School of Medicine at Brown University, Department of Psychiatry, with the creation of the Martin B. Keller, MD, award to be given annually to the Most Outstanding Graduating Resident. In 2010 Dr. Keller received a Special Presidential Commendation from the American Psychiatric Association “in recognition of his leadership of the Brown University Department of Psychiatry and Behavioral Sciences for over 20 years and developing the Department from a relatively modest program into an academic juggernaut, considered to be one of the top five educational and research departments in the United States.” In 2013, Dr. Keller was awarded the “Dean's Excellence in Teaching Award” for Dedication to Excellence in Clinical Teaching, by Brown University Alpert Medical School.
He was honored as one of The World’s Most Influential Scientific Minds 2014, for psychiatry/psychology by Reuters, based on having “highly cited papers” published from 2002 to 2012, which were in the top 1 percent by citations for Dr. Keller’s field and year of publication. Reuters stated that “Everyone acknowledged is a person of influence in the sciences and social sciences,”…and… “These researchers are, undoubtedly, among the most influential scientific minds of our time.”

He was also elected to Best Doctors worldwide database for multiple consecutive years.

**Valerie Knopik, PhD**  
Associate Professor (Research)

Dr. Knopik’s primary area of interest is the joint effects of genetic and environmental (specifically prenatal and early postnatal) risk factors on child and adolescent externalizing behavior, associated learning and cognitive deficits, and later substance use. Her primary research involves a comprehensive approach, which incorporates community as well as high-risk genetically-informed samples, such as family, twin, children-of-twin, and case-crossover designs. Methodological approaches include, but are not limited to, biological pathway models, linkage, genome-wide association, epigenetics, and next generation sequencing. She is currently conducting a family-based case-crossover study to examine the influence of prenatal tobacco exposure and genes that code for drug metabolizing enzymes on later child behavior. In addition to her primary area of interest, Dr. Knopik currently collaborates on several NIH-funded research projects including, but not limited to: genetics and cannabis-related outcomes (NIDA; Co-PIs Metrik and Knopik; PI Haney), sleep genetics (NIMH, PI Carskadon), genetics and adolescent alcohol use disorder (NIAAA, NICHD; PI Heath), biobehavioral markers of pediatric bipolar disorder (NIMH; PI Dickstein), family interventions for adolescent substance use (NIAAA, PI Spirito), genetics and reward learning (NIDA; Co-PIs Beevers and Maddox), and suicide genetics (NIMH; Co-PIs Armey and Miller). She is currently the primary mentor on multiple NIH career development awards focused on psychiatric genetics and HIV (PI Nugent), genetic comorbidity of adolescent smoking and ADHD (PI Bidwell), and methodological approaches to gene-set and gene-network investigations of alcohol dependence (PI Palmer).

**Robert Kohn, MD, MPhil**  
Professor

Robert Kohn, MD is a Professor of Psychiatry & Human Behavior at Brown University. He completed medical school at the University of Illinois, psychiatry residency training at Brown University, and a fellowship in psychiatric epidemiology at Columbia University. He is Director of the Brown University Geriatric Psychiatry Training Fellowship. His research focus is psychiatric epidemiology and geriatric psychiatry. He has an interest in cultural psychiatry and international mental health. He has done research on disasters, immigration, stigma, stress, and the role of social class on mental health. He has also studied the course of psychiatric disorders in the elderly. In addition, he is a consultant with the World Health Organization / Pan American Health Organization with whom he has numerous ongoing projects. Dr. Kohn currently has ongoing research in Chile, Honduras, Guatemala and Israel. He has conducted national mental health surveys both in adults and children.

**W. Curt LaFrance, Jr., MD, MPH, FAAN, FANPA, DFAPA**  
Associate Professor

W. Curt LaFrance, Jr., M.D., M.P.H., is the Director of Neuropsychiatry and Behavioral Neurology at Rhode Island Hospital (RIH) and Associate Professor of Psychiatry and Neurology in the Departments of Psychiatry and Human Behavior and of Neurology at Alpert Medical School, Brown University. He is the neuropsychiatrist for the RIH Comprehensive Epilepsy Program, and a faculty member of the Brown Institute for Brain Science. He is a staff physician at the Providence VA and Clinical Lead for the VA National Telemental Health Center Tele-Seizures Program. He is the Director of the combined neurology/psychiatry residency at Brown University, where he teaches and mentors undergraduates, medical students, residents and fellows in research and clinical practice. He has mentored over 40 students, residents and faculty in neuropsychiatry and research since 2004.

Dr. LaFrance received a bachelor of arts degree in psychology from Wake Forest University and his medical degree from the Medical College of Georgia. He completed the combined residency in neurology and psychiatry at Brown Medical School and is boarded in both neurology and in psychiatry by the American Board of Psychiatry and Neurology (ABPN). After residency, he completed a Clinical Research Fellowship in Combined Treatments at
Brown University with an institutional NIH T-32 national research service award. He obtained his master of public health from Brown University in 2007.

Dr. LaFrance received a National Institute of Neurological Disorders and Stroke (NINDS) 5 year K23 award to conduct clinical trials for patients with psychogenic nonepileptic seizures (NES). He was awarded the 2003 Career Development Award by the American Neuropsychiatric Association (ANPA). His biography is included in Marquis Who’s Who in the World. He was awarded the American Academy of Neurology (AAN) 2013 Dreifuss-Penry Epilepsy Award. He was appointed to the Governor’s Permanent Advisory Commission on Traumatic Brain Injury (TBI). His academic society memberships include the AAN (fellow), ANPA (fellow), American Psychiatric Association (distinguished fellow), American Epilepsy Society (AES), and Christian Medical & Dental Associations.

Dr. LaFrance serves on the Committee on Research for the ANPA. He served on the Editorial Boards for Epilepsy & Behavior, Epilepsia and Journal of Neuropsychiatry and Clinical Neurosciences, and he is an invited reviewer for numerous neurology and psychiatry journals. He chaired the 2005 NINDS/NIMH/AES sponsored NES treatment workshop. This international workshop brought neurologists, psychiatrists, psychologists and allied health members together to set the direction for future NES research. He received an International League Against Epilepsy (ILAE) Visiting Professorship in Chile, partnering with epilepsy centers in Latin America, and he was a Srinivasan Neuroscience Conclave participant in India addressing Global Epilepsy in Low and Middle Income Countries. He serves on the Epilepsy Foundation (EF) Professional Advisory Board. He is a steward for the NINDS Epilepsy Benchmarks, and he serves on the ILAE’s Neuropsychiatric Commission, chairing the NES Task Force. He is co-chair of the AES’s NES Task Force. He was an Advisor for the DSM-5 Somatoform Disorders Work Group and is a member of the ABPN Certification Exam Committee. He is an affiliate member of the Managing Epilepsy Well Network. He served on the Neuroethics interdisciplianary panel for the Center for Bioethics and Human Dignity and as a reviewer for NIH/NINDS, EF, Institute for Mental Health Research, Brainwave Irish Epilepsy Foundation, and The Wellcome Trust’s Neuroscience and Mental Health Funding Committee. His research interests include neuropsychiatric aspects of epilepsy, somatoform disorders, and TBI. His research has been funded by the NINDS, AES, EF, Brown, VA and Siravo Foundation. He was PI on an AES-EF funded pilot multi-center treatment trial for NES. He has written on and given invited lectures regionally, nationally and internationally on topics in neuropsychiatry, including epilepsy co-morbidities, somatoform disorders, NES, TBI, PMD, integrative medicine, causation and consciousness. His work is published in various neurology, psychiatry and pediatric peer-reviewed journals. He is co-editor of the 3rd edition of Gates and Rowan’s Nonepileptic Seizures and co-author of Taking Control of Your Seizures: Workbook and Treating Nonepileptic Seizures: Therapist Guide.

https://vivo.brown.edu/display/wlafranc

Barry Lester, PhD
Professor

Barry Lester, PhD is Professor of Psychiatry & Human Behavior, Professor of Pediatrics and founding director of the Center for the Study of Children at Risk at the Brown University, Alpert Medical School and Women and Infants Hospital of Rhode Island. The Center has two arms. One is the research arm, Center for the Study of Children at Risk. The other is the Center for Children and Families where we provide clinical services.

Research has shown that biological insults can lead to poor developmental outcome in children at risk but that many of these effects can be attenuated or exacerbated by social and environmental factors. Current research at the Center includes developmental outcome of children with prenatal drug (e.g., cocaine, methamphetamine) exposure, maternal depression during pregnancy and the effects of psychotropic medications on fetus and newborn, fetal behavioral assessment, early detection of infants at risk for autism and development in children with autism, neurobehavioral assessment of preterm and other infants at risk and prediction of later impairment, efficacy of the single family room model of care in the Neonatal Intensive Care Unit, and treatment of withdrawal in infants of mothers in methadone maintenance treatment during pregnancy.

The study of the interplay between biological and social factors provides an understanding of the mechanisms that determine developmental outcome. One way in which the environment (prenatal or postnatal) alters behavior is through epigenetic mechanisms and this (including translational research) has become a major focus of our current research. Epigenetic work includes behavioral development of typically and atypically (e.g. autism, preterm infants, children with prenatal drug exposure) developing populations, prenatal (e.g. maternal depression) and postnatal (e.g. parenting, environmental adversity) factors that could result in epigenetic alterations.
in the child that affect later development. The study of children at risk enables us to understand the unfolding of developmental processes that can lead to the development of preventive interventions to minimize or eradicate the forces that drive adverse outcome in children.

Clinical services at the Center include perinatal, postpartum and infancy, early childhood and autism spectrum disorders. Inpatient services at Women and Infants Hospital include neurobehavioral assessment of preterm infants in the Neonatal Intensive Care Unit as part of standard care, occupational therapy and family consultation.

Dr. Lester's research has been continuously funded by the NIH in the 30 years he has been at Brown. He has been heavily involved in the NIH peer review process having served on numerous NIH study sections, the NIH National Advisory Council on Drug Abuse, Steering Committee of the National Advisory Council on Drug Abuse, the NIH Director's Pioneer Award Program and the College of the Center for Scientific Review. He is past president of the International Association for Infant Mental Health and the author of more than 250 peer reviewed publications and 18 edited volumes.

**Diane Lipscombe, PhD**
Professor, Department of Neuroscience

Dr. Lipscombe studies neuronal voltage-gated calcium channels, their role in chronic pain, migraine, and their potential involvement in psychiatric illnesses. She has particular interest in Cacna1b and Cacna1c genes and their potential to generate cell-specific splice isoforms with different cellular functions. The Lipscombe lab uses a combination of molecular cloning, gene manipulation in mice, and electrophysiology including optogenetics to study the function and pharmacology of voltage-gated calcium ion channels. Dr. Lipscombe has a number of mentoring and teaching awards and she has graduated a number of predoctoral students and trained several postdoctoral associates, many received individual external funding for their projects. Dr. Lipscombe is funded by NIH and is PI of Neuroscience predoctoral training grants.

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**Paul Malloy, PhD**
Professor

Paul Malloy, PhD graduated from Dartmouth College in 1972, and served as a Navy officer for the next four years. He earned a PhD in clinical psychology from SUNY Binghamton in 1981, and has been on the Brown Faculty since 1983. He serves as Director of Psychology at Butler Hospital and co-director of the Memory and Aging program at Butler Hospital. He is involved in numerous clinical trials for Alzheimer's disease and consults regularly with pharmaceutical companies on trial design and investigator training. He is Associate Director of the Division of Psychology within the DPHB.

Dr. Malloy’s primary research interest is frontal lobe/ executive functions in neuropsychiatric disorders, with a current focus on dementia. He is investigating the role of small vessel cerebrovascular disease in causing executive deficits using behavioral and neuroimaging techniques. In addition, a series of projects have demonstrated the relationship between executive problems and caregiver burden, failure in activities of daily living, and apathy. He is also involved in studies measuring executive functioning in obsessive-compulsive disorder (OCD) and depression in patients undergoing deep brain stimulation treatment.

[http://research.brown.edu/myresearch/Paul_Malloy](http://research.brown.edu/myresearch/Paul_Malloy)

**Jeanne McCaffery, PhD**
Associate Professor (Research)

Jeanne McCaffery, PhD, is an Associate Professor (Research) of Psychiatry & Human Behavior at the Weight Control and Diabetes Research Center of The Miriam Hospital and the Alpert Medical School of Brown University. She received her PhD in Clinical and Health Psychology from the University of Pittsburgh in 2001, after serving as a clinical intern with the Brown Clinical Psychology Training Consortium. Her primary research interests are in the interplay of genetic and environmental factors in cardiovascular disease, type 2 diabetes and their behavioral risk factors. Recently, she has been applying these interests to discover genetic variation that predicts magnitude of weight loss with behavioral intervention, and to determine whether behavioral weight loss mitigates genetic effects on cardiovascular risk factors and disease outcomes. She is the author of over 70 peer-reviewed manuscripts and has served as principal investigator or co-investigator on several grants from the National Institutes of Health.
John McGeary, PhD
Assistant Professor

John McGeary, PhD is an Assistant Professor in the Department of Psychiatry & Human Behavior. Dr. McGeary's research relates to the identification of genetic variation that is associated with psychiatric and behavior phenotypes. He actively collaborates on over 60 projects with investigators at Brown, affiliated hospitals and collaborating institutions around the country. Research topics span addiction phenotypes, anxiety phenotypes, mood phenotypes, nonpsychiatric behavioral phenotypes (e.g., sleep, obesity) and pharmacogenetics (the use of genetic profiles to predict medication efficacy and side-effects) among others. With a focus on team science, Dr. McGeary is an active member on 14 currently funded grants (& 41 completed grants) and is an author on 112 published papers.

Elizabeth McQuaid, PhD, ABPP
Professor (Research)

Elizabeth McQuaid, PhD graduated summa cum laude from Yale University with honors in psychology, and completed her graduate work in Clinical Psychology at the University of Denver. She completed her clinical psychology internship at the Children's National Medical Center in Washington, DC, before coming to Brown for a postdoctoral fellowship in Pediatric Psychology. She has been a member of the DPHB faculty since 1997.

Dr. McQuaid's current research interests focus on psychosocial aspects of pediatric asthma and food allergies. Prior grants assessed involved designing and implementing interventions to promote adherence to long-term controller medications in pediatric asthma, through funding from the National Institute of Child Health and Human Development (NICHD), the National Institute for Nursing Research (NINR), the National Heart, Lung, and Blood Institute (NHLBI) and a Career Investigator Award from the American Lung Association. Dr. McQuaid recently completed a holds a Mid-Career Investigator award (K24) from NICHD to promote her mentorship of junior faculty in patient-oriented research. Currently, she directs or is involved in several projects that assess psychological and family characteristics that influence asthma management and outcomes in pediatric asthma, and novel computer-based interventions to promote effective food allergy management among children. She is a key member of multiple research teams investigating innovative approaches to enhancing disease management in families of children with chronic illness.

Dr. McQuaid has an ongoing interest in investigating cultural issues in disease management and health care disparities in general. She served on the Brown Committee for Minority Faculty Recruitment and Retention for three years and as Chair of the committee in her final year. She served as Associate Editor of the Journal of Pediatric Psychology, with responsibility for a special section on health disparities and diversity, from 2007-2012. Dr. McQuaid is active in both national and international research forums, has been appointed a Fellow in Division 54 (pediatric psychology) of APA, and is Board Certified in Clinical Child and Adolescent Psychology. She is currently Director of the Brown Clinical Psychology Training Consortium.

Ivan Miller, PhD
Professor

Ivan Miller, PhD is interested in the assessment and treatment of mood disorders, including major depression, dysthymia, and bipolar disorder. He also has specific interests in the treatment of suicidal patients and in family approaches to mood disorders.

http://moodtreatment.org/PsychoSocialResearch/Main.html

Peter Monti, PhD
Professor, Department of Behavioral and Social Sciences, School of Public Health

Peter Monti, PhD is the Donald G. Millar Distinguished Professor of Alcohol and Addiction Studies and Director, Center for Alcohol and Addiction Studies at Brown University. He is also a senior career research scientist funded through a K05 from NIH. A recognized leader in understanding the bio-behavioral mechanisms that underlie addictive behavior as well as its prevention and treatment, Dr. Monti has published approximately 300 papers, monographs, and chapters. These are primarily focused in the areas of assessment, mechanisms, early intervention, and treatment. During this past year he has lectured both nationally and internationally. He recently completed two books: Treating Alcohol Dependence: A Coping Skills Training Guide and The Tobacco Dependence Treatment Handbook: A Guide to Best Practices.

Dr. Monti’s research interests are: (1) Adolescent substance abuse: Prevention and treatment; 2) Coping skills and relapse prevention; 3) Combined cognitive behavioral and pharmacological interventions; 4) Alcohol and HIV/sexual risk.
His contributions to the addictions field have been both theoretical and applied. Dr. Monti has trained hundreds of students, primarily psychology interns and postdoctoral fellows. He is presently PI on two major research grants: a basic mechanisms research program focused on understanding how a pharmacological agent affects craving for alcohol in the natural environment, and a trauma unit assessment and brief intervention project that incorporates significant others into the treatment. Dr. Monti is PI of a P01 focused on alcohol and HIV.

Dr. Monti regularly serves on numerous scientific review committees, including those for NIAAA and NIDA and the VA Merit Review Board for Alcohol and Drug Dependence. He was appointed chair of NIAAA’s Portfolio Review Committee - a committee charged with helping to chart the course for the Alcohol Institute for the next five- to ten-year period, the NIAAA’s Extramural Advisory Board, and recently served on the National Institutes of Health National Advisory Council on Alcohol Abuse and Alcoholism. He has sat on numerous editorial boards of scientific journals and was recently appointed to the board of the Journal of Child and Adolescent Substance Abuse. Dr. Monti currently holds fellowship status in Divisions 12, 18, and 50 of the American Psychological Association and is a fellow of the American Psychological Society. In 2003, he received the Distinguished Researcher Award from Section VIII of Division 12. Dr. Monti has served on the Board of Trustees of Stonehill College and the Board of Directors of the Research Society on Alcoholism and currently sits on the Board of Directors of S.M.A.R.T. Recovery International. In 2002, Dr. Monti was presented with the Musiker-Merenda Award by the Rhode Island Psychological Association for his “outstanding contributions to mental health and psychology” and the Association of Medical School Psychologists Distinguished Researcher Award in 2003. Dr. Monti was the recipient of the Distinguished Researcher Award from the Research Society on Alcoholism (RSA) in 2006. He is a past president of the Research Society on Alcoholism.

Eric Morrow, MD, PhD
Associate Professor, Department of Molecular Biology, Cell Biology, and Biochemistry

Eric M. Morrow received his PhD in genetics and neurodevelopment at Harvard University. He received his MD degree from the Health Science Training Program at Massachusetts Institute of Technology (MIT) and Harvard Medical School. During his medical training, Dr. Morrow developed a strong interest in the scientific challenges posed by childhood neuropsychiatric disorders. He conducted further clinical and scientific training in neurology and psychiatry at Harvard Medical School. He is board certified with the American Board of Psychiatry and Neurology (ABPN) and focuses on developmental disorders.

Neurodevelopmental disorders such as autism and intellectual disability are common and cause profound morbidity. The Morrow Lab investigates the genetic and molecular mechanisms underlying disorders of cognitive development. The long-term aim of this research is to establish a basic foundation for improved genetic diagnoses and treatment interventions designed to enhance cognitive and functional gains for patients. Because these disorders are highly genetic and in order to identify core molecular mechanisms, genome-wide “forward genetic” strategies to identify genetic mutations have been a principal focus. In complement to this, molecular and neurodevelopmental studies of identified pathways are underway.

Currently, research on the Na+/H+ exchangers in endosome biology and neurodevelopment is a central project in the Morrow Lab. The endosomal NHEs regulate intra-endosome ion and pH homeostasis in developing
neurons. Severe mutations in endosomal NHE6 lead to Christianson Syndrome (CS), an X-linked, autism-related developmental brain disorder. Mutation of NHE6 or its altered transcription has also been associated with idiopathic autism. Dr. Morrow’s research approach involves bridging between patient-oriented studies and basic experimental studies. Namely, the Lab uses mouse models and patient-derived stem cells to model cell biologic processes in neuropsychiatric conditions emerging during development (Ouyang et al., 2013). The Lab also conducts computational analysis of transcriptome data, such as from post-mortem autism brain, and of deep sequencing data to look for changes in gene expression patterns that might provide insights into the molecular mechanisms underlying neuropsychiatric disorders (Schwede et al., 2014; Gamsiz et al., 2013). In addition to mutation discovery, the Morrow Lab is interested in genotype-phenotype studies. To this end, the Lab has enrolled the largest cohort of families to date with mutations in NHE6 through a parallel, longitudinal clinical study. Through analysis of these pedigrees, the Morrow Lab has characterized the genetic and phenotypic diversity of NHE6 mutations in CS and developed diagnostic criteria for CS (Pescosolido et al., 2014).

Dr. Morrow is founding Director of the Developmental Disorders Genetics Research Program (DDGRP). This Program is within the Department of Psychiatry & Human Behavior and is based at Emma Pendleton Bradley Hospital, one of the nation’s largest tertiary care hospitals for childhood neuropsychiatric disorders. Dr. Morrow is also co-founder of the Rhode Island Consortium for Autism Research and Treatment (RI-CART). The unique private-public-academic collaboration of RI-CART involves all points of service and care in the state of Rhode Island. The RI-CART project is highly interdisciplinary involving pediatricians, psychiatrists, and neurologists, as well as other medical, research, and education specialists (Gerber et al., 2014). Ongoing interactions with these organizations provide Dr. Morrow and his research group with access to a rich source of patient information and materials for conducting basic, clinical, and translational studies.

Research opportunities for trainees are various, including projects in patient-oriented genetic research, computational genetics, and/or wet-lab research.

Justin Nash, PhD
Professor, Department of Family Medicine

Justin Nash, PhD is Professor of Family Medicine and also of Psychiatry and Human Behavior at the Alpert Medical School of Brown University and Memorial Hospital of Rhode Island. He is the Director of Behavioral Health in Family Medicine at Memorial Hospital. He is Chair of the Council of Clinical Health Psychology Training Programs. He recently completed a term on the Executive Board of the Society for Health Psychology Division and previously served on the Board on the Society of Behavioral Medicine. He has served as Associate Editor for Annals of Behavioral Medicine and Journal of Behavioral Medicine. His research interests are in integrating behavioral healthcare into primary care settings and also in the areas of headache and pain.

Teri Pearlstein, MD
Associate Professor

Teri Pearlstein, MD is an Associate Professor of Psychiatry & Human Behavior and an Associate Professor of Medicine at the Alpert Medical School of Brown University. Her major research interest has been the assessment and treatment of women with premenstrual dysphoric disorder (PMDD). Seminal studies have included the impact of PMDD on functioning and the efficacy of antidepressant medications and oral contraceptives in PMDD. These studies have included the first placebo-controlled SSRI (fluoxetine) trial in PMDD in the United States (1991), the largest and longest-term naturalistic follow-up study of women with PMDD (1994), a placebo-controlled comparison of fluoxetine and bupropion in PMDD that exhibited the lack of efficacy of nonserotonergic antidepressants in PMDD (1997), a study reporting the benefit of sertraline on psychosocial functioning in a large sample of women with PMDD (2000), and a study confirming the efficacy of an oral contraceptive containing drospirenone for PMDD (2005).

Dr. Pearlstein has also conducted treatment trials in dysthymia, post-traumatic stress disorder, binge eating disorder, and postpartum depression. One of her current major research projects involves data analyses from a two-site R01 evaluating the treatment efficacy of sertraline, pill placebo, and interpersonal psychotherapy in women with postpartum depression (PI: Caron Zlotnick, PhD). Another current research project (R34) involves the study of adjunctive integrated chronotherapy for pregnant and postpartum women with depression (PI: Katherine Sharkey, MD, PhD). Dr. Pearlstein is a mentor on Dr. Sharkey’s K23 study examining the role of sleep changes on mood during pregnancy and the postpartum period. Dr. Pearlstein is also
a Co-Investigator in a pilot study of the efficacy and potential mechanism of mindfulness based stress reduction in women with irritable bowel syndrome (PI: Ellen Flynn, MD).

Noah Philip, MD
Assistant Professor

Dr. Philip graduated AOA from Albany Medical College in 2005 with a Distinction in the Study of Biomedical Ethics, and completed psychiatry residency at the Alpert Medical School of Brown University in 2009. His research interests lie in the understanding and development of novel treatments for mood and anxiety disorders. To this end, during residency he authored several papers on off-label use of atypical antipsychotics and various augmentation regimens for treatment-resistant depression. He also conducted a clinical trial testing whether the nicotinic partial agonist, varenicline, had antidepressant properties. After residency he completed an NIMH T32 Postdoctoral research fellowship in neuroimaging and treatment development, where he was awarded a young investigators grant from the Rhode Island Foundation to examine neuroimaging correlates of trauma in adult populations. This work was then followed by a Neuromodulation Fellowship at Butler Hospital that focused on the use of noninvasive brain stimulation for depression, including transcranial magnetic stimulation (TMS), and served as PI or co-PI for several multisite clinical trials of TMS. He was awarded a VA-Career Development Award in 2012 to use multimodal neuroimaging methods to understand neural network dysfunction associated with PTSD, and concurrently was awarded several pilot grants from the VA Center for Neurorestoration and Neurotechnology to integrate research using neuroimaging and noninvasive brain stimulation. Dr. Philip has received numerous awards, including young investigator awards from the NCDEU and APA, travel fellowships from the Society of Biological Psychiatry and NIMH, and was the recipient of the 2013 Psychiatry Department Research Mentor Award. He is a member of the Program Committee for the Society of Biological Psychiatry and serves as invited junior faculty to the NIMH-sponsored Career Development Institute for Psychiatry. Clinically, Dr. Philip established and directs the psychiatric neuromodulation service at the Providence VA, where residents often rotate to learn how to deliver TMS therapy. He is strongly committed to educating and mentoring psychiatry residents; he directs the Evidence-Based Medicine and Neuroscience Curricula for the PGY1s and 2s, and has served as co-director of the resident research seminar since its inception. In 2015 he joined the R25 leadership as a co-investigator.

Katharine Phillips, MD
Professor

Katharine A. Phillips, MD, is Principal Investigator on an R25 grant from the National Institute of Mental Health, which provides research training for residents in the General/Adult Psychiatry Residency Training Program at Brown. She is also Director of Research Training for the residency. In addition, Dr. Phillips is Senior Research Scientist, Director of Research for Adult Psychiatry, and Director of the Body Dysmorphic Disorder Program at Rhode Island Hospital.

A graduate of Dartmouth College and Dartmouth Medical School, Dr. Phillips completed her psychiatry residency at McLean Hospital/Harvard Medical School. Dr. Phillips has done pioneering research on body dysmorphic disorder, and she also has expertise in olfactory reference syndrome, obsessive-compulsive disorder, and other psychiatric disorders. Since 1995, her research has been continuously funded as a principal investigator by the National Institute of Mental Health. Dr. Phillips has published more than 290 scientific articles, review papers, book chapters, and letters as well as six authored or co-authored books and four edited books. She has given more than 500 presentations to professionals in the U.S. and abroad. She has received numerous honors and awards for her research and other academic contributions, including a Special Presidential Commendation from the American Psychiatric Association for her research accomplishments.

Dr. Phillips has provided research mentoring to numerous residents, post-doctoral fellows, junior faculty, and undergraduate students. She participates in research mentoring programs sponsored by the American Psychiatric Association, the American Society of Clinical Psychopharmacology, and the American College of Neuropsychopharmacology. She is an elected fellow of the American College of Neuropsychopharmacology, a member of the American College of Psychiatrists, a Distinguished Fellow of the American Psychiatric Association, and a member of numerous editorial boards. She was Chair of the DSM-5 Anxiety, Obsessive-Compulsive Spectrum, Post-Traumatic, and Dissociative Disorders Workgroup, and a member of the DSM-5 Task Force. For four years she chaired the National Institute of Mental Health’s Interventions Research Review Committee (Scientific Review Group). Dr. Phillips serves on the Scientific Advisory Board of the International OCD Foundation and the Scientific Council of the Anxiety Disorders Association of America. She has repeatedly been included in Best Doctors in America and Castle Connolly’s America’s Top Doctors.
Lawrence Price, MD
Professor

Dr. Price attended the University of Michigan, where he received a B.S. with highest honors in psychology and high distinction in 1974, followed by an M.D. in 1978. After an internship in internal medicine at Norwalk Hospital in Norwalk, Connecticut, he completed residency and fellowship training in psychiatry at Yale University. From 1982 until 1996, he was on the faculty in the Department of Psychiatry at Yale University, serving as Associate Professor and Director of the Clinical Neuroscience Research Unit at the Connecticut Mental Health Center in New Haven, Connecticut. Since 1996, he has been Professor of Psychiatry and Human Behavior at Brown University. From 1996 until 2012, he was Clinical Director, Director of Research, and Chair of the Institutional Review Board at Butler Hospital in Providence, Rhode Island, subsequently serving as Chief Medical Officer from 2012 until 2014. He is currently President of Butler Hospital and Executive Chief of the Brain and Behavioral Health Service Line of Care New England.

Dr. Price’s primary research interests have involved the phenomenology, clinical psychopharmacology, neuropharmacology, and neurobiology of mood, anxiety, and addictive disorders. He has published nearly 450 scientific papers, and was identified by the Institute for Scientific Information as one of the top ten authors of high-impact papers in psychiatry from 1990 to 1999. A Distinguished Fellow of the American Psychiatric Association and a Fellow of the American College of Neuropsychopharmacology, he is one of the principal developers of the Yale-Brown Obsessive-Compulsive Scale (Y-BOCS), the standard assessment tool for OCD. In addition to his research activities, Dr. Price has received numerous awards for his teaching, mentoring, and clinical work, and is Editor of The Brown University Psychopharmacology Update and Principal Editor for clinical psychopharmacology of Psychopharmacology.

Dr. Price’s detailed biography is available at: http://www.research.brown.edu/research/profile.php?id=1100924967&r=1

Stephen Salloway, MD
Professor, Department of Neurology

Stephen Salloway MD, MS is Director of Neurology and The Memory and Aging Program at Butler Hospital in Providence, Rhode Island and Professor of Neurology and Psychiatry at the Alpert Medical School. He received his MD from Stanford Medical School and completed residencies in neurology and psychiatry at Yale University. Dr. Salloway has published more than 250 scientific articles, book chapters, and abstracts and has edited 3 books. His research focuses on a) clinical trials for prevention and treatment of Alzheimer’s disease, mild cognitive impairment, and preclinical Alzheimer’s disease and b) the development of imaging biomarkers to study conversion to dementia. Dr. Salloway has received numerous grants for his research from the National Institute of Health and private foundations. Dr. Salloway has been the lead author for a number of high profile publications related to Alzheimer's disease treatment and biomarkers. Working with Dr. Paul Malloy, the Butler Memory and Aging Program has become a nationally recognized clinical research center testing new disease modifying treatments for Alzheimer’s disease including amyloid vaccines, secretase modulators, and deep brain stimulation. The Memory and Aging Program is a performance site for new Alzheimer’s prevention trials for sporadic and autosomal dominant AD. The Program conducts translational research projects in collaboration with Drs. Stopa and delaMonte from the Department of Pathology. Drs. Salloway, Malloy and Correia have taken an active role in developing diffusion tensor imaging and myelin imaging, in collaboration with Professor Laidlaw from Computer Science and Professor Deoni from Engineering. These novel techniques can help better understand the neural networks involved frontal behavior and executive function. Residents and other trainees play an integral role in clinical research and many trainees have won young investigator awards and grants and have presented their work at national and international meetings and published their results in peer-reviewed journals.

Dr. Salloway is the Past President of the American Neuropsychiatric Association, a fellow of the American Academy of Neurology, and he has been elected to membership in the American Neurological Association. He is a scientific reviewer for the National Institutes of Health and for more than 25 journals, universities, and research foundations. Dr. Salloway has made more than 300 invited national and international presentations on dementia and neuropsychiatric disorders.
**Jerome Sanes, PhD**  
Professor, Department of Neuroscience

Dr. Sanes investigates brain processes underlying mechanisms of volition and motor learning. He has expertise in MRI analysis and functional connectivity, which is relevant to numerous psychiatric disorders. Dr. Sanes directs the COBRE Center for Central Nervous System Function and the Brown MRI Research Facility. In addition to mentoring as PI on the COBRE and neuroscience students, Dr. Sanes mentors many others in his role as MRI Research Facility director, to which R25 residents will have access.


**Ronald Seifer, PhD**  
Professor

Ronald Seifer, PhD received his PhD in developmental psychology from the University of Rochester in 1981. He spent 8 years at the Institute for the Study of Developmental Disabilities, University of Illinois Chicago before coming to the Alpert Medical School in 1986. Dr. Seifer is currently Professor of Psychiatry and Human Behavior at Brown University and Director of Research at E. P. Bradley Hospital.

Dr. Seifer’s research interests are in the area of developmental psychopathology. He has ongoing studies on children at risk because of maltreatment. Processes studied include children’s emotions, relationship formation, temperament, and family interaction. The focus of this work is on the early years of life. Other recent work has focused on integration of mental health in primary care settings, and dissemination of empirically based interventions.

[http://www.research.brown.edu/myresearch/ronald_seifer](http://www.research.brown.edu/myresearch/ronald_seifer)  
[https://vivo.brown.edu/display/rseifer](https://vivo.brown.edu/display/rseifer)

**Thomas Serre, PhD**  
Assistant Professor, Department of Cognitive, Linguistic & Psychological Services

Dr. Serre explores mechanisms underlying object and visual scene recognition using computational, behavioral, imaging, and physiological techniques. His work on rapid visual categorization is relevant to psychiatric disorders such as autism, schizophrenia or Alzheimer. He is currently collaborating with the Neuro-Technology group to work with epileptic patients with implanted (intra-cranial) electrodes to study the neural basis of natural everyday vision. Dr. Serre is Associate Director of the Rodent Neurodevelopmental Behavioral Testing Facility, a state-of-the-art (fully automated) facility to generate and characterize preclinical models of disorders, test novel pharmacological and genetic rescue strategies in rodent models, and conduct basic research. He has mentored researchers at the undergraduate, graduate, and postdoctoral level. He is a recipient of an NSF early career award and DARPA young faculty award. His research has been funded by NSF, ONR, DARPA and the Human Frontier Science Foundation.

**M. Tracie Shea, PhD**  
Professor

Tracie Shea, PhD has conducted research on post-traumatic stress disorder, personality disorders, and depression. Her current research on PTSD and other trauma related psychopathology includes a VA funded pilot study of aerobic exercise as an adjunctive treatment for PTSD in Veterans, and a VA funded randomized clinical trial of cognitive behavioral treatment for anger problems in Veterans who have deployed to Iraq or Afghanistan. Prior research on psychosocial treatments include being a training site principle investigator two large multi-site clinical trials funded by the VA Cooperative Studies Program to examine the effectiveness of exposure based treatments compared to supportive, present-centered therapy for the treatment of PTSD in Veterans, a NIMH study of the efficacy of Interpersonal Therapy and Cognitive Behavioral Therapy for treatment of depression, and several treatment development studies. Her research has also included a Department of Defense study examining the early longitudinal course of PTSD symptoms and predictors of chronic PTSD in Veterans of the Iraq war, and a NIMH funded multi-site study investigating the naturalistic longitudinal course of personality disorders over 10 years of follow-up.

**David Sheinberg, PhD**  
Professor, Department of Neuroscience

Dr. Sheinberg received his AB in Computer Science and Psychology from Yale College and his PhD in Cognitive Science at Brown. Following postdoctoral fellowships at Baylor College of Medicine in Houston and the Max Planck Institute in Tuebingen, Germany, Dr. Sheinberg returned to Brown as a faculty member in the Department of Neuroscience in 2000.
Dr. Sheinberg’s research lab explores how we identify objects and events in the real world, where both the observer and the environment change over time. The brain must process a dynamic stream of sensory information and efficiently parse this information to reach conclusions about the presence or absence of noteworthy objects to which actions should be directed. By studying the activity of neural circuits involved in this process, we aim to better understand mechanisms underlying perception.

Anthony Spirito, PhD
Professor and Vice Chair

Dr. Spirito has focused the majority of his most recent research efforts on treatment efficacy. He completed several treatment development studies to determine if new approaches will increase the efficacy of depression treatments for adolescents. The first trial examined whether concurrently treating the depressed mother of a depressed teen improves outcomes for the adolescent. The second study examined whether the addition of an exercise component to a CBT protocol improves depression outcomes in overweight adolescents treated with CBT. And the third trial tested an integrated approach for treating conduct problems in depressed adolescents. Dr. Spirito has also conducted several studies using individual motivational interventions with adolescents who have substance use problems. Most recently, he broadened the scope of his brief interventions to include a parent motivational intervention, the Family Check-up. He recently completed a study using both an individual adolescent motivational interview and the Family Check-up to address marijuana, sexual risk behavior, and school attendance in high school students who are truant from school. With respect to comorbid conditions, he is now testing the comparative efficacy of an intensive CBT protocol versus standard care in a community mental health clinic as well as in a larger efficacy trial with a sample of adolescents discharged from inpatient psychiatric care.

Michael Stein, MD
Professor, Department of Medicine

Dr. Stein is an internist based at Butler who is an internationally known HIV and substance abuse researcher, having served as PI of more than 20 NIH-funded clinical trials. Dr. Stein’s interests span populations, substances (opioids, marijuana, alcohol, cigarettes), and treatments (relapse, retention, medication adherence, medical complications, sleep, HIV risk). He has mentored investigators across departments, including the DPHB. He has served on training grants from NIDA, NIAAA and NIMH, and co-directed a K12. His mentees have received over a dozen K grants, and many are faculty with R-awards. He is part of the NIDA T32 based at Center for Alcohol and Addiction Studies. Dr. Stein is currently PI or MPI on a K24, three R34's, two R21, and five R01s.

Laura Stroud, PhD
Associate Professor (Research)

Dr. Laura Stroud has a BS in Human Biology from Stanford University, and received a PhD in Psychology from Yale University in 1999. She completed her postdoctoral fellowship at Brown in 2001, then joined the faculty in the Department of Psychiatry and Human Behavior at Brown and the Centers for Behavioral and Preventive Medicine at The Miriam Hospital. Since 2013, Dr. Stroud has also held a secondary appointment in the Department of Behavioral and Social Sciences in the School of Public Health at Brown. Dr. Stroud’s research focused on biobehavioral markers of risk for depression and smoking. Her work includes a focus on two sensitive periods of development: fetal-infant transition and the adolescent/pubertal transition. Within the fetal-infant period, her work has focused on biological pathways through which effects of maternal smoking and depression are transmitted to the fetus. Within the adolescent period, Dr. Stroud’s work has focused on novel biomarkers of risk for adolescent depression. Dr. Stroud established and directs the Maternal Infant Studies Laboratory and the Child and Adolescent Stress Laboratory. She has been continuously funded by the National Institutes of Health since 2000. She has also been the recipient of several Narsad awards from the Brain and Behavior Research Foundation, funding from the National Science Foundation, and from the Flight Attendant Medical Research Institute. Dr. Stroud served as Associate Editor for Nicotine and Tobacco Research and has been the recipient of the Bruce Selya Research Excellence Award from Lifespan Hospitals and the Outstanding Early Career Investigator Award from the National Institute on Drug Abuse.

Robert Swift, MD, PhD
Professor

Robert Swift, MD, PhD received his BA, PhD, and MD (with honors) from the University of Chicago. He completed a residency in Psychiatry at Yale University and is Board Certified in Psychiatry and in Addiction Psychiatry. He conducts clinical and laboratory research on the pharmacological treatment of alcohol and drug abuse and dependence. He is a recipient of research
grants from the National Institute on Alcohol Abuse and Alcoholism (NIAAA) and the National Institute on Drug Abuse (NIDA) and from foundations and pharmaceutical companies. He is the site Principal Investigator for the NIAAA COMBINE Study, a cooperative clinical trial investigating combined pharmacotherapy and psychotherapy in the treatment of alcohol dependence, and he has a national role as the head of the Pharmacotherapy Subcommittee. He serves frequently as a member of advisory committees to government agencies and industry. He is a Distinguished Fellow of the American Psychiatric Association (APA), a member of the American College of Neuropsychopharmacology (ACNP), and the American Society of Addiction Medicine (ASAM), and is Secretary, a member of the Board of Directors and the Education Committee of the Research Society on Alcoholism.

Dr. Swift's area of academic interest is the neuropsychopharmacology of alcohol and drug dependence. Since 1984, he has managed an externally funded alcohol research program that has conducted research funded by grants and contracts from institutes at the National Institutes of Health (NIH), foundations, pharmaceutical companies, and Brown University. Currently, he has active funding for several grants and contracts, for which he is the principal investigator (PI). These include a federally funded contract to develop an alcohol biosensor to provide real-time monitoring of blood alcohol levels and a federally funded grant, the multi-site National Institute on Alcohol Abuse and Alcoholism (NIAAA) cooperative COMBINE Study on combined pharmacotherapy and psychotherapy of alcohol dependence. He is a site-principal investigator for a Veterans Affairs (VA) Cooperative Study exploring the safety and efficacy of the alpha-2 agonist lofexidine in opiate withdrawal and site-PI for three industry-sponsored clinical trials (Pfizer, Bristol-Myers-Squibb, and Ortho-McNeill). He is a funded co-investigator on five other NIH grants at Brown University and other institutions around the country. Dr. Swift is currently conducting human laboratory research using an alcohol self-administration paradigm to explore the effects of medications such as topiramate and arizapiprazole in reducing alcohol consumption and the genetic factors that may influence risk taking during alcohol intoxication.

Geoffrey Tremont, PhD
Associate Professor

Geoffrey Tremont, PhD completed his clinical neuropsychology internship at the University of Oklahoma Health Sciences Center and completed a clinical and research fellowship at Brown University. Dr. Tremont is an Associate Professor in the Department of Psychiatry and Human Behavior and Director of Neuropsychology at Rhode Island and The Miriam Hospitals. His primary research interest is psychosocial treatment for caregivers of individuals with dementia. He has received funding from the National Institutes of Health for his work.

Dr. Tremont is the author of over 75 peer-reviewed manuscripts and many presentations at national conferences. He serves on the editorial board for the Archives of Clinical Neuropsychology. In addition to caregiving research, he studies of awareness of deficit in dementia and mild cognitive impairment, cognitive reserve in age-related disorders, and professional issues in clinical neuropsychology. Dr. Tremont is currently investigating the utility of a telephone cognitive screening measure for detecting mild cognitive impairment. He is also involved in projects related to the emotional and cognitive benefits of yoga in psychiatric disorders and aging. He teaches clinical psychology trainees and provides clinical and research supervision to neuropsychology interns and postdoctoral fellows.

http://www.research.brown.edu/research/profile.php?id=1100935350

Audrey Tyrka, MD, PhD
Professor

Dr. Tyrka received her MD and PhD in medicine and psychology through a combined program at the University of Pennsylvania. She completed a psychiatry residency at Brown and further research training in clinical neuroscience at the Mood Disorders Research Program and Laboratory for Clinical Neuroscience at Butler Hospital and Brown University. Dr. Tyrka is Professor of Psychiatry & Human Behavior at Brown, Director of Research at Butler Hospital, and Director of the Laboratory for Clinical and Translational Neuroscience. Dr. Tyrka's research is focused on understanding the neurobiology of stress exposure and associated risk for psychopathology. She is particularly interested in childhood adversity and maltreatment, and studies adults and children with early stress exposure to understand genetic, epigenetic, neuroendocrine, and neuroimmune effects as they relate to risk for mood and anxiety disorders as well as medical
conditions including diabetes and cardiovascular disease. The goal of this work is to understand the mechanisms of risk and protection and, ultimately, to use this information to guide prevention and treatment efforts. In addition, Dr. Tyrka collaborates with Drs. Linda Carpenter, Lawrence Price, and Noah Philip on investigations of novel treatment approaches for major depression, including neuromodulation techniques such as transcranial magnetic stimulation.

http://research.brown.edu/research/profile.php?id=1127415688

Lisa Uebelacker, PhD
Associate Professor (Research)

Dr. Uebelacker's interests center around developing and testing innovative psychosocial methods for treating depression, including collaborative treatment for depression and comorbid health conditions in primary care settings, and the use of yoga and health education as adjunctive treatments for depression. Ongoing projects include: “RCT of hatha yoga for persistent depression” funded by the National Institute of Nursing Research, and “Story-Telling Video Intervention” – which involves the development of videos of patients who have coped well with depression – funded by the National Institute of Mental Health.

Takeo Watanabe, PhD
Professor, Department of Cognitive, Linguistic & Psychological Sciences

Dr. Watanabe's research focuses on clarifying the mechanisms for visual perceptual learning of adults using a unified psychophysical and neuroimaging methods. Dr. Watanabe has conducted the research of perceptual learning for 15 years and published around 60 papers on perceptual learning in academic journals. Dr. Watanabe has conducted perceptual learning research by means of psychophysics and brain imaging techniques. In the ongoing projects, he has systematically examined how global visual and brain processing is changed in association with perceptual learning. However, the basic mechanisms of plasticity and stability in visual perceptual learning have not been clarified. The current renewal of the study aims to investigate the basic mechanisms of plasticity and stability by means of psychophysics and magnetic resonance spectroscopy (MRS), a cutting-edge brain imaging technology.

Ashley Webb, PhD
Assistant Professor, Department of Molecular Biology, Cellular Biology and Biochemistry.

Dr. Ashley Webb received a BSc in Biology from McGill University, and a PhD in Molecular and Cellular Biology from The University of Washington. She trained as a postdoctoral fellow in the Department of Genetics at Stanford University, and joined the faculty in the Department of Molecular Biology, Cellular Biology and Biochemistry at Brown in 2015. Dr. Webb studies the molecular mechanisms of aging, with a focus on the mechanisms responsible for stem cell dysfunction during aging. Dr. Webb has received several awards for her work, including awards from Stanford University, and the American Federation for Aging Research. She is a recent recipient of the Glenn Award for Research in Biological Mechanisms of Aging.

Lauren Weinstock, PhD
Associate Professor (Research)

Dr. Lauren Weinstock has an AB in psychology and French from Duke University and an MA and PhD in clinical psychology from the University of Colorado at Boulder. She completed her predoctoral internship in clinical psychology at Brown University in 2005, and continued in the DPHB as a postdoctoral fellow until transitioning to the faculty in 2008. Her early research training was supported by numerous awards, including an NIMH predoctoral Intramural Research Training Award, individual predoctoral and postdoctoral NIMH National Research Service Awards, an NIMH Mentored Career Development Award, and a Young Investigator Award from the American Foundation for Suicide Prevention. Dr. Weinstock's current NIH- and foundation-supported research program focuses on development and evaluation of adjunctive behavioral interventions for severe mood disorders and suicide prevention, especially during vulnerable transition periods (i.e., from inpatient to outpatient treatment, across the perinatal period, and from criminal justice to community settings). She has authored over 50 scientific publications in these areas, is on the editorial board for the journal Behavior Therapy, and has served on numerous national workgroups focused on best practices in bipolar disorder and suicide prevention research and treatment.
Laura Whiteley, MD
Assistant Professor (Research)

Dr. Laura Whiteley received her B.A. from the University of Pennsylvania, in which she graduated with honors in her major, and Magna Cum Laude. She completed her M.D. from Temple University School of Medicine. Laura completed her adult psychiatry residency, child and adolescent psychiatry fellowship, and a T32 research fellowship in the Department of Psychiatry and Human Behavior at Brown University. She founded and directs the Young Adult Behavioral Health Program at Rhode Island Hospital which specializes in providing psychiatric services to students attending local colleges and universities. Laura received a Rhode Island Foundation Grant for her work with colleges and young adults in 2014. Laura's research focuses on the bio behavioral aspects of HIV for young adults. She has received funding from the NIMH, NICHD, and the Lifespan/Tufts/Brown Center for AIDS Research (CFAR). Laura is currently the PI on an NIMH R34. She is a dedicated mentor to residents and medical students and has received both the Brown Department of Psychiatry and Human Behavior Research Mentorship Award and the American Academy of Child and Adolescent Psychiatry Research Mentorship Award.

Rena Wing, PhD
Professor

Rena R. Wing, PhD is a Professor of Psychiatry and Human Behavior at the Alpert Medical School and The Miriam Hospital. She is the Director of the Weight Control and Diabetes Research Center. Dr. Wing is well known for her research on behavioral treatment of obesity and particularly its application to type 2 diabetes. She has published over 350 peer-reviewed articles on these topics. Currently, she is principal investigator at The Miriam Hospital site for a fifteen-center NIH-funded trial entitled "Look AHEAD" and serves as chairperson of this multi-site study. Dr. Wing has served as a member of the council for NIDDK and on the NIDDK Task Force on the Prevention and Treatment of Obesity.

Dr. Wing's research focuses on behavioral treatment of obesity and addresses the following questions: What are the health benefits of modest weight loss? How can we improve behavioral treatment of obesity? Is it possible to prevent weight gain and subsequent obesity? What are the characteristics of successful weight loss maintainers?

www.weightresearch.org

Shirley Yen, PhD
Associate Professor (Research)

Shirley Yen, PhD is a graduate of the University of Chicago (BA) and received her doctorate in clinical psychology from Duke University (PhD). Dr. Yen's research focuses on identifying risk factors and developing interventions for suicidal behaviors in adolescents and adults. While most of her prior research has been with adults with borderline personality disorder, Dr. Yen has recently expanded her interests to work with adolescents. Currently she is a principal investigator of two adjunctive transdiagnostic interventions for suicidal adolescents who have been admitted to the inpatient psychiatric unit due to suicide risk. Dr. Yen is also an investigator in the multi-site Course and Outcome of Bipolar Youth study. Past NIMH-funded studies in which Dr. Yen has been an investigator include the Collaborative Longitudinal Study of Personality Disorders, a landmark study of adult PD, and a naturalistic follow-up study of suicidal adolescents.

Mark Zimmerman, MD
Professor

Mark Zimmerman, MD is the Director of Outpatient Psychiatry at Rhode Island Hospital and the Miriam Hospital, and Director of the Partial Hospital Program at Rhode Island Hospital. Dr. Zimmerman is also the principal investigator of the Rhode Island Methods to Improve Diagnostic Assessment and Services (MIDAS) project (www.MIDASproject.org) The overarching goal of the MIDAS project has been to integrate research methodology into routine clinical practice in order to improve clinical practice and examine a number of clinically important issues related to assessment, diagnosis and treatment outcome. The MIDAS project is an ongoing clinical research project that began more than 15 years ago. To date, approximately 4,000 patients presenting for treatment at the Rhode Island Hospital Department of Psychiatry outpatient practice have been evaluated with semi-structured diagnostic interviews making this the largest clinical epidemiological study ever conducted. Approximately 10 years ago the MIDAS project was extended to the evaluation of candidates for bariatric surgery, with more than 3,500 candidates being evaluated.

Some of the clinically relevant issues examined in the MIDAS project include the under detection of diagnostic comorbidity in clinical practice, depressed patients’ opinions regarding the most important factors to consider in determining remission, the over diagnosis of bipolar disorder, and the under recognition of medication side effects.
By developing a large data-base containing symptom ratings and diagnoses based on semi-structured interviews, we were able to examine the generalizability of antidepressant efficacy trials by applying the exclusion criteria typically used in these studies to patients evaluated in routine clinical practice. In a paper published in the American Journal of Psychiatry we found that only a minority of patients evaluated in the MIDAS project would have qualified for an efficacy trial. Other papers from the MIDAS project elaborated on the issue of the generalizability of efficacy studies of depression.

One of the goals of the MIDAS project has been to develop measures for use in clinical practice. The Psychiatric Diagnostic Screening Questionnaire (PDSQ) is a broad-based self-report measure screening for the most common psychiatric disorders presenting in outpatient practice. The Clinically Useful Depression Outcome Scale (CUDOS) and Clinically Useful Anxiety Outcome Scale (CUXOS) were developed for use in routine clinical practice. To facilitate a measurement-based care approach towards treatment a website has recently been developed for internet administration of these scales as well as a self-report scale (www.outcometracker.org). A study of its reliability, validity, and patient acceptability of internet-based outcome assessment was published in the Journal of Clinical Psychiatry.

We have recently developed a new type of measure to determine if a depressed patient is in remission (the Remission from Depression Questionnaire). In contrast to the traditional approach towards determining remission based only on symptoms, the RDQ also assesses non-depressive symptoms common in depressed patients, functioning, coping ability, positive mental health, life satisfaction and a general sense of well-being. Recently published research found that patients considered the multifactorial RDQ a more accurate indicator of their goals of treatment and more closely associated with self-perceived remission status than a purely symptom measure of depression.

To date more than 200 articles have been published based on the MIDAS project dataset. In total, Dr. Zimmerman is the author of more than 350 articles published in peer-reviewed journals, and serves on the editorial board of 10 journals (including Associate Editor of the Journal of Personality Disorders and Psychiatry Research). He also is the author of the recently revised Interview Guide to Diagnose DSM-5 Psychiatric Disorders and the Mental Status Examination.

Caron Zlotnick, PhD
Professor

Dr. Caron Zlotnick’s research interests focus on interventions for vulnerable financially disadvantaged women. Currently, she is PI on several NIH funded studies that include an HIV risk reduction intervention for incarcerated women with interpersonal violence, postpartum depression treatment, and a computer-based intervention for perinatal women with mental illness and intimate partner violence. She has also recently co-authored published articles on postpartum depression, intimate partner violence, and incarcerated women.
Websites for Additional Information

**DPHB Websites**
Department of Psychiatry & Human Behavior Home Page  
http://med.brown.edu/DPHB/

Alpert Medical School of Brown University Home Page  
http://med.brown.edu/

Brown University Directory  
http://directory.brown.edu/search

DPHB Faculty Information  
https://www.brown.edu/academics/medical/about/departments/psychiatry-and-human-behavior/faculty

DPHB Training Programs  
http://med.brown.edu/DPHB/training/

**Centers and Institutes at Brown**
Brown Center for the Study of Children at Risk  
http://www.brown.edu/Departments/Children_at_Risk/

Brown University AIDS Program  
http://www.brown.edu/Departments/BRUNAP/

Brown University Institute for Brain Science  
http://www.brainsciences.brown.edu/

Brown University MRI Research Facility (MRF)  
http://mri.brown.edu/

Center for Alcohol and Addiction Studies  
http://www.caas.brown.edu/

Center for Genomics and Proteomics  
http://www.brown.edu/Research/CGP/about/

Center for Neurorestoration and Neurotechnology  
http://www.providence.va.gov/research/Research_Programs.asp

Center for Primary Care and Prevention  
http://med.brown.edu/CPCP/

Center for Statistical Sciences  
http://www.stat.brown.edu/

Centers for Behavioral and Preventative Medicine  

Department of Cognitive, Linguistic & Psychological Sciences  
http://www.brown.edu/Departments/CLPS/

Department of Molecular Biology, Cell Biology, and Biochemistry  
http://www.brown.edu/Departments/Molecular_Biology/

Department of Neuroscience  
http://neuroscience.brown.edu/

Institute for Community Health Promotion  
http://publichealth.brown.edu/ICHP/

International Health Institute  
http://publichealth.brown.edu/ihi/

The Norman Prince Neuroscience Institute  
http://www.npniri.org/

**Affiliated Hospitals**
Bradley Hospital  
http://www.bradleyhospital.org/about-bradley-hospital.html

Butler Hospital  
http://www.butler.org/

Memorial Hospital of Rhode Island  
http://www.mbri.org/news.php

Providence Veterans Affairs Medical Center  
http://www.providence.va.gov/

Rhode Island Hospital  
http://www.rhodeislandhospital.org/

The Miriam Hospital  
www.miriamhospital.org/

Women and Infant's Hospital  
www.womenandinfects.org/