Massachusetts General Hospital
Corporate & Foundation Relations
Office of Development

PRIVATE FUNDING OPPORTUNITIES: FEB 10, 2017

Please contact Corporate & Foundation Relations in the Office of Development at devcfr@mgh.harvard.edu if you wish to submit a proposal in response to any of these opportunities. Note that proposals are still routed through the standard InfoEd/Research Management process.

*Please note that any grant that brings in less than **15% in indirect costs (IDC)** will need to be supplemented up to the 15% equivalent by existing investigator or departmental sundry funds. Resolution of this issue must occur prior to submission of the award. Training fellowships from foundations, public charity, and non-profit organizations are excluded from this minimum IDC requirement.*

1. Grant Program, ABMRF/The Foundation for Alcohol Research

The Foundation accepts applications for grants to conduct research on the effects of alcohol consumption on health and behavior. The following areas are of greater interest:

- Studies on how particular patterns of consumption (quantity of alcohol consumed, types of alcoholic beverages consumed, frequency of consumption and context) are related to health and behavioral outcomes.
- Interdisciplinary, bio-informatics, and other approaches to elucidate genetic and environmental factors that influence the patterns of consumption of alcoholic beverages and related consequences.

The Foundation encourages basic and clinical research, including epidemiology. Examples of research topics include factors influencing underage drinking, mechanisms of alcohol-related organ injury, fetal alcohol spectrum disorders, and effects of alcohol on general health.

The Foundation does not support research on treatment of the complications of advanced alcoholism. However, research involving treatment paradigms intended to elucidate the pathogenesis of alcohol-related problems will be considered. Non-research activities such as education projects, public awareness efforts and referral services are not eligible for support.

The following categories describe the types of support provided; however, applicants need not specify the type of support they are requesting, and should be aware that funds are not set aside specifically for these categories. Awards are made based on scientific merit and funding priority is given to highly innovative research.

1. Research Project Grants - This type of support provides funds for a specific research project to be conducted by the named principal investigator. The project must be original research to develop new knowledge in a wide range of topics relevant to alcohol use and misuse. These grants provide support for the career development of highly promising new scientists just entering the field of alcohol research. The award is intended to provide funds for an original research project conducted by the awardee, to assist in the transition to independent research status following completion of training.

2. Data Analysis Grants - Funds may be provided for the analysis of previously collected data. Typically, data analysis grants are awarded funding for only a single year. They include such major data sets in the U.S. as the various National Health and Nutrition Examination Surveys (HANES), National Health Interview Surveys (NHIS), Multiple Causes of Death, Mortality Detail, and Fatal Accident Reporting System (FARS) and, in Canada, the Canada Health Survey, Canada Health Practices Survey and Canada Social Survey. Requests may be submitted to analyze other national or regional data sets, if made available by the individual investigator. This type of grant is not intended to provide funds to analyze data previously collected by the applicant to complete a research project.

3. Pilot/Preliminary Studies - Funds may be requested to conduct pilot/preliminary studies to determine the feasibility of conducting a study of interactions of biological and behavioral variables which would result in a larger and more expensive research project. Such a study may be designed to test a new method or approach to study biobehavioral events, or to collect data on a sample of subjects to document the practicality of an interdisciplinary project.

Award Amount: $150,000 paid over 2 years
Indirect Costs: 15%
Application Deadline: Feb 15, 2017
Website: http://www.abmrf.org/appyling_grant

2. International Research Grant Program: Alzheimer's Association Research Fellowship (AARF), Alzheimer's Association (ALZ)
The Fellowship Program is intended to support exceptional researchers who are engaged in their post-graduate work (i.e. postdoctoral fellows) and before they have their first independent faculty positions (i.e. Assistant Professor).

The Alzheimer's Association International Research Grant Program funds investigations that advance our understanding of Alzheimer's disease, help identify new treatment strategies, provide information to improve care for people with dementia, and further our knowledge of brain health and disease prevention.

AREAS OF FOCUS FOR THE 2017 INTERNATIONAL RESEARCH GRANT PROGRAM

Areas of focus are high priority research areas in which the Association actively seeks proposals. The areas are defined broadly, and the examples cited are not intended to preclude or constrain other projects or proposals. Potential applicants are strongly encouraged to submit proposals in their own areas of interest or formulate questions different from those presented in this announcement. Innovative and novel ideas to address challenges in research are the core of the Association's scientific program.

i. Research in Diverse Populations: Closing the Gap
The Association has concluded that there are significant information and data deficits about ethnic and cultural groups in most major research areas in Alzheimer's disease. These include screening and neuropsychological testing instruments; diagnostic procedures; recruitment and retention in research protocols and clinical trials; clinical and neuropathological correlative studies; caregiving and family studies; basic laboratory investigations; genetics projects; development of new models of long-term care and management of these services; epidemiological and health services 4 research; and the economics of care.

To fill these gaps in knowledge, projects must address the following issues:

- Socioeconomic status
- Values and Beliefs
- Role of the Family and Community
- Geographical and regional variation
- Interactions among factors

The following points outline some of the tools, instruments and strategies needed to address these deficiencies. Although very large population studies fall outside the funding scope of the Association, smaller, well-designed studies can effectively address a number of the information and instrument gaps that must be filled. This list is not exhaustive but is intended to highlight the types of research needed:

- Screening and assessment instruments that are valid and reliable for specific age, gender, cultural, language, and ethnic groups, as well as for different levels of education and literacy, are needed as soon as possible.
- Test norms standardized for age and gender for specific ethnic groups are also needed urgently.
- Cross validation.
- Contacts.
- Culturally competent investigators or investigators who are members of the cultural group.
- Community barriers

ii. Social and behavioral research has the potential to increase our understanding of the effects of Alzheimer's disease and other dementias on individuals with the disease, their families and other caregivers. At the same time, it can increase our knowledge about interventions that

improve care practices, health, functional and emotional outcomes and quality of life, as well as prevent or reduce symptoms for millions of individuals and their families.

A wide range of questions in the social and behavioral arenas are applicable for research. The answers to these questions, if broadly applied, would improve the quality of daily life for people with Alzheimer's disease and their families. Each investigator is encouraged to tailor his or her question to particular populations.

1. Person with dementia
2. Physical and social environment
3. Family and household
4. Identification and evaluation of services and interventions
5. Health policy
6. Behavioral modifications to help maintain cognitive function
7. Implementation and dissemination of knowledge
8. Cognitive/functional focus

iii. Biological Focus: Causes, Early Detection, Treatment, Models, Prevention and Risk Factors. Although vast advances have been made in Alzheimer's research, the field still faces a great number of serious impediments to progress in translating basic science discoveries into effective treatments and evidence-based clinical practices for dementia. Some of the many challenges that remain for investigators to address include:

- Cause(s) of the Disease: How and why do specific sets of neurons in select brain structures become dysfunctional? Why is there selective neuronal death in specific brain regions and not in others? What initiates these processes? What is the key step in the cascade of events leading to cell death? How do genetic factors interact with other factors to influence these processes?
- Early and Accurate Detection and Diagnosis: What are the most sensitive, specific and cost-effective diagnostic procedures? What are the most sensitive, specific and cost-effective procedures for assessing change through the course of the disease?
- Treatment: What are the most effective and safe pharmacological treatment strategies, behavioral management techniques, and combinations of therapies?
- Experimental Models of the Disease: Advances and Limitations
- Prevention: What are the prospects and strategies for prevention?
- Risk Factors: What are the characteristics, either genetic or acquired, that increase the risk of Alzheimer's disease or offer protection against or delay the onset? How do the risk factors vary among specific diverse populations? Are any risk factors modifiable?

Award Amount: $175,000 paid over 2-3 years
Indirect Costs: 10%
LOI Deadline: Mar 1, 2017
Website: http://www.alz.org/research/alzheimers_grants/types_of_grants.asp

3. Core Program - Training Awards - Minority Postdoctoral Fellowship (PMF), American Diabetes Association (ADA)
These fellowships are available to minority postdoctoral researchers (MD, MD/PhD, PhD, DVM, or equivalent) who are underrepresented in biomedical research. Fellowships provide support for high quality training in disciplines and topics relevant to diabetes, in an environment conducive to beginning a career in diabetes research.

Award Amount: Up to $195,816 paid over 3 years
Indirect Costs: 10%
Application Deadline: Apr 17, 2017
Website: http://professional.diabetes.org/meetings/core-program#custom-collapse-3-minoritypostdoctoral-fellowship-pmf

4. Core Program - Development Awards - Junior Faculty Development (JFD), American Diabetes Association (ADA)
These awards support early investigators as they establish independence as diabetes researchers.

Applicants must dedicate at least 75% total effort to research activities.

Award Amount: $552,000 paid over 4 years
Indirect Costs: 10%
Application Deadline: Apr 17, 2017
Website: http://professional.diabetes.org/meetings/core-program#custom-collapse-2-junior-faculty-development-jfd

5. Core Program - Training Awards - Postdoctoral Fellowship (PDF), American Diabetes Association (ADA)
These fellowships are available to postdoctoral researchers (MD, MD/PhD, PhD, DVM, or equivalent) to provide support for high quality training in disciplines and topics relevant to diabetes, in an environment conducive to beginning a career in diabetes research.

Award Amount: Up to $195,816 paid over 3 years
Indirect Costs: 10%
Application Deadline: Apr 17, 2017
Website: http://professional.diabetes.org/meetings/core-program#custom-collapse-1-innovative-clinical-or-translational-science-icts

6. Core Awards - Research Awards - Innovative Clinical or Translational Science (ICTS), American Diabetes Association (ADA)
These awards support research with novel and innovative hypotheses, performed in human subjects, or research approaches to accelerate the transition of scientific discoveries into clinical application. Studies supported with these awards must directly involve human subjects, human samples and/or data, and offer considerable promise for advancing the cure, prevention or treatment of diabetes. Applications proposing high-risk projects with the potential for high-impact results are encouraged, as are studies that may not be sufficiently developed for traditional funding sources.

Award Amount: $600,000 paid over 3 years
Indirect Costs: 10%
Application Deadline: Apr 17, 2017
Website: http://professional.diabetes.org/meetings/core-program

7. Core Program - Research Awards: Innovative Basic Science Awards, American Diabetes Association (ADA)
These awards support basic research with novel and innovative hypotheses in any area relevant to the etiology or pathophysiology of diabetes and its complications that holds significant promise for advancing the prevention, cure or treatment of diabetes. Applications proposing high-risk projects with the potential for high-impact results are encouraged, as are studies that may not be sufficiently developed for traditional funding sources.

Award Amount: $345,000 paid over 3 years
Indirect Costs: 10%
Application Deadline: Apr 17, 2017
Website: http://professional.diabetes.org/meetings/core-program

8. New Investigator Awards in Alzheimer's Disease, American Federation for Aging Research (AFAR)
Funded by The Rosalinde and Arthur Gilbert Foundation, the major goal of this partnership program is to support important research in areas in which more scientific investigation is needed to improve the prevention, diagnosis, and treatment of Alzheimer's disease. The program also serves to encourage junior investigators in the United States and Israel to pursue research and academic careers in the neurosciences, and Alzheimer's disease in particular.

The proposed research must be conducted at any type of not-for-profit setting in the United States or Israel.

Projects in basic and translational research related to Alzheimer's disease (AD) that are clinically relevant, will be considered. For one of the awards, priority may be given to an investigator with a research project that has high translational potential.

Examples of promising areas of research include, but are not limited to:

- Genetic and environmental risk/protective factors;
- Cellular and molecular pathways;
- Cardiovascular and cerebrovascular factors;
- Neuro-inflammation;
- Neuroimaging and other biomarkers;
- Cellular, animal and in silico models;
- Diagnostic and prognostic markers;
- Exercise, nutrition, and dietary factors;
- Drug discovery and other therapeutics.

In addition, proposals will be accepted that relate to the basic mechanisms of central nervous system (CNS) aging, such as:

- Learning and memory;
- The biology and pathobiology of synapses;
- Neurogenesis, neural and glial progenitors

Award Amount: $100,000 paid over 1-2 years
Indirect Costs: 8%
LOI Deadline: Mar 6, 2017
Website: http://www.afar.org/research/funding/new-investigator-awards

9. Limited Project Grants (LPG), American Society of Colon and Rectal Surgeons (ASCRS)/Research Foundation of ASCRS

The purpose is to provide investigator the opportunity to pursue research interest, specifically germane to the field of colon and rectal surgery. It is anticipated that successful research projects, initially funded through the American Society of Colon and Rectal Surgeons Research Foundation's LPG mechanism, will ultimately secure funding from other national funding agencies.

Award Amount: $50,000 for 1 year
Indirect Costs: None
Application Deadline: Mar 1, 2017
Website: https://www.fascrs.org/educational-grants-and-awards

10. Career Development Award, American Society of Colon and Rectal Surgeons (ASCRS)/Research Foundation of ASCRS

The goal of the CDA is to provide young surgeons with the support necessary for the initiation and development of an academic career in colorectal surgery. As opposed to the LPG awards, the CDA focuses on career development and mentorship of the individual rather than solely on the research proposal. The award is intended for the academic investigator demonstrating significant creativity in research relevant to the pathophysiology or management of diseases of the small bowel, colon, rectum, or anus.

Award Amount: Up to $150,000 paid over 2 years
Indirect Costs: None
Application Deadline: Mar 1, 2017
Website: https://www.fascrs.org/educational-grants-and-awards

11. Clinical Studies on Benign Colorectal Disorders, American Society of Colon and Rectal Surgeons (ASCRS)/Research Foundation of ASCRS

Through the RFP Program, the Research Foundation intends to encourage the conduct of well designed clinical trials leading to a definitive answer to a specific colorectal program. The goal of the Research Foundation's RFP program is to foster outstanding research in specific areas of colorectal diseases or disorders leading to the improvement and management of common, yet understudied colorectal questions. Pilot studies or phase I, II, or III trials are all appropriate clinical study designs. A peer review mechanism with emphasis on scientific merit will be used to rate proposals.

The RFP Program is targeting the following benign colorectal conditions as listed in alphabetical order. The RFP includes, but is not limited to, the following topics:

- Anastomotic Leak (roles of new technologies in reducing leak rate)
- Anorectal Surgery (reduction of post-operative pain)
- Conservative management of diverticulitis (may involve a trial to determine appropriate role of percutaneous drainage of diverticular abscess or a trial of surgery versus observation after recovery from diverticulitis or other similar trial ideas)
- Drain versus no drain after low anterior resection
- Parastomal Hernias (optimal techniques and best preventative method)
- Simple and Complex Anal Fistulae (optimal surgical and medical treatment)

Award Amount: $50,000 for 1 year
Indirect Costs: None
LOI Deadline: Aug 1, 2017
Website: https://www.fascrs.org/educational-grants-and-awards

12. SSAT and Research Foundation Joint Award, American Society of Colon and Rectal Surgeons (ASCRS)/Research Foundation of ASCRS
This award is designed to assist in the development of young faculty members who want to develop an active research program in colorectal diseases. Specifically, this is designed to support research that is focused on diseases of the lower intestinal tract, including but not limited to, inflammatory bowel disease, cancer, or benign conditions of the lower GI tract. The goal of this project is to foster stronger fellowship between these two Societies through greater scientific collaboration and more comprehensive young faculty mentorship.

The supported research should be focused on diseases of the lower intestinal tract. This can include, but is not limited to, inflammatory bowel disease, cancer, or benign conditions of the lower GI tract.

It is expected that the recipient submit an abstract arising from his/her jointly funded research for presentation consideration at the SSAT and/or ASCRS annual meeting(s), as well as manuscripts to either the Journal of Gastrointestinal Surgery, the official journal of the SSAT, or Diseases of the Colon and Rectum, official journal of ASCRS, for publication consideration. The society will work with the recipient at the conclusion of the jointly funded research to determine which meeting(s) and Journal(s) s/he will be submitting.

Award Amount: Up to $100,000 paid over 2 years
Indirect Costs: None
Application Deadline: Feb 17, 2017
Website: https://www.fascrs.org/educational-grants-and-awards

13. International Fellowship Grant, American Society of Colon and Rectal Surgeons (ASCRS)/Research Foundation of ASCRS
The purpose of this grant is provide research support to residents and clinical investigators from outside the United States or Canada to travel to the United States or Canada to do research - or - residents and clinical investigators in the United States or Canada to travel outside the United States or Canada to do research.

Award Amount: $50,000 for 1 year
Indirect Costs: None
Application Deadline: Mar 1, 2017
Website: https://www.fascrs.org/educational-grants-and-awards

14. NARSAD Young Investigator Grant (YI Grant), Brain & Behavior Research Foundation (BBRF)
The BBRF is the largest non-government, donor-supported organization that distributes funds for psychiatric brain and behavior disorder research. The Foundation's YI Grant program offers

funds to enable promising investigators to either extend their research fellowship training or to begin careers as independent research faculty.

The program is intended to facilitate innovative research opportunities and supports basic, as well as translational and/or clinical investigators. All research must be relevant to our understanding, treatment and prevention of serious psychiatric disorders such as: schizophrenia; bipolar; mood and anxiety disorders; or early onset brain and behavior disorders.

As is well known, the Foundation is interested in supporting the full range of relevant neurobiological and psychobiological basic science. The Foundation also supports clinical science which can include careful studies using qualitative research approaches or research generating preliminary data to explore a new hypothesis generated by clinical experience or large sample studies.

The grant is not sufficient to support expensive large sample patient-based studies but it may be possible to attach a study to a clinical project already under way or for which other funding has become available. Some possibilities for preliminary clinical studies include:

1. Support for an add-on study to identify a biomarker in the context of an ongoing clinical trial.
2. Determining if a computer-based cognitive or other remediation enhances effectiveness of cognitive agents.
3. Proof of principle study in a few subjects to see if efficacy is detected with a new treatment.
4. Testing a novel hypothesis within an already established data set.
5. Research on productive work outcomes.

These examples do not define the Foundations specific goals, but illustrate feasibility of expensive clinical research in the context of the NARSAD Grants Program.

Area(s) of study may include: Addiction, ADHD, Anxiety Disorders, Autism, Depression, Mood (General), Mood (Unipolar), Mood (Bipolar), OCD, PTSD, Schizophrenia, Other. Applicants should indicate their research method(s): Behavior, Circuits, Genetics, Molecular, Physiology, Systems, Other. Applicants should indicate whether they study Humans or Non-Humans.

Award Amount: $70,000 paid over 2 years
Indirect Costs: None
Application Deadline: Feb 27, 2017
Website: https://bbrfoundation.org/yi

15. Request for Applications, Foundation for Prader-Willi Research (FPWR)
FPWR announces the availability of funds to support innovative research relevant to PWS. FPWR is particularly interested in supporting projects that will lead to new interventions to alleviate the symptoms associated with PWS. FPWR seeks to support innovative, high-risk/high reward research.

The Foundation for Prader-Willi Research seeks to stimulate research that will improve the lives of individuals with PWS in the near term; thus, they are particularly supportive of research to develop and evaluate new therapeutic approaches for PWS. They also are interested in supporting innovative research that will lead to significant advances in the understanding of this disorder.

All scientifically meritorious research related to PWS will be considered, but areas of particular interest include:

Genetics and Imprinting

- Use of advanced technologies to define and characterize the contribution PWS-region genes, including noncoding RNAs and protein coding genes, to the PWS phenotype
- Studies to advance the understanding of the imprinting phenomenon and gene regulation in the PWS critical region
- Studies to evaluate pharmacological and/or genetic approaches to selectively activate gene expression in the region, or replace gene function
- Studies to characterize alterations in RNA/protein expression and function in PWS model systems

Obesity and Energy Balance in PWS

- Application of advanced neurobiology techniques to understand the basis of hyperphagia and lack of satiety in PWS, with a focus on defining therapeutic targets
- Studies to understand how failure to thrive progresses to hyperphagia during development
- Studies to define and normalize alterations in hunger/satiety hormones and energy balance in PWS
- Development and clinical evaluation of novel therapeutic interventions for hyperphagia Neurobiology of PWS / Hypothalamic Dysfunction Evaluation of abnormalities from the organ level to the cellular and molecular level, using imaging, models, and tissue from individuals with PWS Development and evaluation of novel therapeutic interventions

Clinical Issues in PWS

- Investigation of GI issues including gastroparesis in PWS individuals or appropriate models
- Characterization of sleep disturbances, seizures, scoliosis, osteoporosis, endocrine dysfunction, hypotonia and other clinical problems that significantly impact quality of life

- Evaluation of therapeutic interventions to address these clinical problems
- Investigation of aging-related problems in PWS

Models of PWS
- The use of relevant animal and cellular models to understand abnormalities in neurobiology, metabolism, behavior and development in PWS
- Manipulation of existing rodent models to mimic extreme appetite and obesity, and to develop and evaluate therapeutic interventions for PWS
- Use of cells or tissues derived from animal models of PWS to explore molecular and cellular changes in PWS
- Development of novel models of PWS

Psychiatric Disorders and Behavioral Problems in PWS
- Studies to understand the genetic underpinnings of psychiatric illness in PWS
- Studies to define early markers/triggers of mental illness, and develop and evaluate early interventions to mitigate mental health problems
- Studies to understand and treat autism, obsessive compulsive symptoms, anxiety and depression in PWS
- Approaches to reduce family stress

Learning Disabilities / Early Intervention
- Development and evaluation of methods to overcome learning disabilities common in PWS
- Development and evaluation of early intervention strategies

Resource Development
FPWR will also consider supporting the development of unique in vitro and in vivo resources, or bioinformatic capabilities to be shared with the PWS research community.

Award Amount: $100,000 for 1 year
Indirect Costs: 8%
LOI Deadline: Mar 1, 2017
Website: http://www.fpwr.org/grant-program

16. Career Development Award, Lupus Foundation of America (LFA)
The purpose of the award is to facilitate the professional development of second or third year rheumatology, nephrology and dermatology fellows in the U.S. and Canada, interested in lupus research towards a career as an independent clinician-scientist at an academic, medical, or research institution, with a research program having considerable focus on the investigation of basic, clinical, translational, behavioral or epidemiological lupus research.

Award Amount: $70,000 paid over 2 years
Indirect Costs: None
Application Deadline: Apr 8, 2017
Website: http://www.lupus.org/research/career-development-award

17. NHF-Baxtalta Clinical Fellowship Program, National Hemophilia Foundation (NHF)
The NHF-Baxalta Clinical Fellowship Program, funded through the generous support of Baxalta U.S., Inc., is intended to increase the number of skilled clinicians committed to providing comprehensive care for individuals with bleeding disorders. The program is designed to provide licensed physicians with hands-on clinical training and prepare them for academic careers in bleeding disorders research. Mentored training takes place at highly-qualified hemophilia and/or thrombophilia treatment centers located throughout the United States. Through this program, award funding is provided to cover costs directly related to the training of physicians who show an interest in devoting their careers to the care of patients with hemophilia and other bleeding disorders.

In the field of rare disorders, hemophilia has been touted as a model for medical care delivery since the majority of patients benefit from receiving treatment at comprehensive care centers. However, this highly specialized care system has become increasingly fragile as a generation of HTC physicians either retire or choose to leave the field. Such departures are accelerating as an ironic byproduct of the HTC success story: More and more patients receive prophylaxis and preventative care; more individuals are able to infuse themselves at home, resulting in a reduction of patient-doctor contact hours. This situation, coupled with a relatively stable to low number of hemophilia patients, has imperiled the profession as a viable full-time practice. Other more systemic problems have included the lack of comprehensive training programs for bleeding disorder specialists and reduced institutional support for hemophilia clinical care and research. One proposed solution for meeting these patients' needs is to support the training of physicians who are skilled in the treatment of both conditions at specially-designated care centers. NHF and Baxalta firmly believe that this solution offers the means to sustain the number of quality treatment centers, increase the number of providers attracted to this field and also spur institutional support.

Award Amount: $200,000 paid over 2 years
Indirect Costs: 8%
Application Deadline: Feb 28, 2017
Website: https://www.hemophilia.org/Researchers-Healthcare-Providers/Research-Grant-Programs/NHF-Baxter-Clinical-Fellowship-Program

18. Prader-Willi Syndrome Research, Prader-Willi Syndrome Association (USA)
The Foundation, a nonprofit organization dedicated to supporting research to advance the understanding and treatment of Prader-Willi syndrome (PWS), announces the availability of

funds to support innovative research relevant to PWS. FPWR is particularly interested in supporting projects that will lead to new treatments to alleviate the symptoms associated with PWS.

All scientifically meritorious research related to PWS will be considered, but areas of particular interest include:

1. Genetics: Genotype to Phenotype
    - Use of advanced technologies to define and characterize the contribution PWS-region genes, including noncoding RNAs and protein coding genes, to the PWS phenotype
    - Studies to characterize alterations in gene regulation, RNA/protein expression and function in PWS model systems
    - Use of cells or tissues derived from animal and cellular models of PWS to explore molecular and cellular changes, and understand abnormalities in neurobiology, metabolism, behavior and development in PWS

2. Neurobiology of hunger / feeding behavior in PWS
    - Application of advanced neurobiology techniques to understand the basis of hyperphagia and lack of satiety in PWS, with a focus on defining therapeutic targets
    - Studies to understand how failure to thrive progresses to hyperphagia during development
    - Studies to define and normalize alterations in hunger/satiety hormones and energy balance in PWS
    - Manipulation of existing rodent models to mimic extreme appetite and obesity, to develop and evaluate therapeutic interventions for PWS
      *Note: FPWR has a novel MAGEL2 deficient rat model available for study.

3. Neurobiology of cognition deficits, maladaptive behavior and mental illness in PWS
    - Use of cellular models of PWS, animal models, and patients - to understand developmental delay, intellectual disability, maladaptive behaviors, autistic behavior, anxiety, depression and psychosis in PWS
    - Studies to understand the genetic underpinnings of psychiatric illness in PWS
    - Studies to define early markers / triggers of mental illness
    - Development and evaluation of novel therapeutic interventions to mitigate mental health problems
    - Approaches to reduce family stress

4. Clinical Care Research
    - Characterization of significant clinical issues in PWS [eg, sleep disturbances, hyperphagia, gastroparesis, seizures, scoliosis, osteoporosis, hypotonia, endocrine dysfunction, and other clinical problems that impact quality of life]
    - Evaluation of therapeutic interventions to address these clinical problems - existing pharmaceutical interventions, behavioral approaches, diet, supplements, devices, etc.

- Investigation of aging-related issues in PWS
- Development and evaluation of methods to overcome learning disabilities common in PWS
- Development of new standards of care

5. Therapeutics Development - Genetic Therapies
   - Studies to evaluate pharmacological and/or genetic approaches to selectively activate gene expression in the PWS region
   - Studies to develop therapeutics to replace PWS gene function(s)

6. Therapeutics Development - Pharmacologic Therapy (novel and repurposed drugs)
   - Development and clinical evaluation of novel or repurposed therapeutic interventions for hyperphagia
   - Development and clinical evaluation of novel or repurposed therapeutic interventions for other clinically significant issues in PWS

Resource Development
FPWR will also consider supporting the development of unique in vitro and in vivo resources and models, or bioinformatic capabilities to be shared with the PWS research community.

Award Amount: $200,000 paid over 2 years
Indirect Costs: 8%
LOI Deadline: Mar 1, 2017
Website: http://www.fpwr.org/request-for-applications/

19. PCF Challenge Award, Prostate Cancer Foundation (PCF)
The Prostate Cancer Foundation (PCF) is pleased to announce a Request for Applications for PCF Challenge Awards for investigations of metastatic, lethal prostate cancer. These awards will be funded depending on the level of innovation in applications received. High risk, currently unfunded projects are most desired.

PCF Challenge Awards:
- Team science awards are composed of at least three (3) investigators from non-profit academic research centers, including one young investigator (see PCF Challenge Award Team requirements below).
- Support large-scale research projects concerning metastatic, lethal prostate cancer over a duration of two years.
- Provide up to a total of $1 million per team.
- Cover only direct research costs and travel to the Annual PCF Scientific Retreat.
- Research proposals in the following topic areas are preferred:
- Immunotherapy for the treatment of metastatic, lethal prostate cancer.
- Targeted radionuclide therapy for advanced prostate cancer.

- New systemic treatments for metastatic, lethal prostate cancer including those targeting the currently `undruggable'.
- First-in-field research on new targets for systemic treatment of metastatic, lethal prostate cancer.
- Mechanisms of resistance to current and investigational drugs targeting the androgen receptor and androgen axis, immune system and chemotherapy.
- Correlative research around either clinical trials of novel agents or strategies or standard of care.
- Developing or validating biomarkers that guide therapy in patients or further our understanding of the mechanisms by which therapies work.
- Tumor microenvironment signaling related to cancer progression including the immune component.
- New bioinformatics technologies for analysis of genomic data.

The PCF Challenge Award Team:

- Should be composed of at least 3 highly experienced investigators capable of providing unique scientific expertise to the solution of this significant problem in prostate cancer research.
- May be assembled from one institution, or several institutions.
- Must embed at least one young investigator as an integral contributor to the team. The young investigator may hold the title of Postdoctoral Fellow, Instructor, Research Associate, Assistant Professor, or equivalent and should be within six years following completion of a professional degree or clinical training such as MD, PhD, MD-PhD, DSc, ScD, DDM, DDS, DMD, MBBS, etc. He or she should have received no more than $200,000 in current direct research funding from all sources including institutional funds. Young investigators who have specifically received research support from the NCI, NIH, or DoD are still qualified and very much encouraged to apply.

Veterans Administration (VA) Hospital Applicants and Projects:
In order to improve the health and wellness of our treasured US military veterans, applicants with VA appointments are highly encouraged to apply. Projects that involve a Veterans Administration (VA) Hospital in their research proposal planning will be appreciated. These may include but are not limited to (1) creation of defined cohorts of prostate cancer patients annotated with the VA electronic medical record for the purpose of population science research; (2) blood, tissue or other body fluid specimens collection from VA prostate cancer patients for translational or clinical trial correlate research; (3) development of new biotechnologies for the diagnosis or treatment of prostate cancer patients within the VA system; (4) activation of novel IRB- and FDA-approved phase 1 and 2 clinical investigations; (5) unique genomic investigations of tumor or germline specimens from VA prostate cancer patients with the goal of understanding the unique mutations that might have occurred due to battlefield exposure to specific toxic materials; (6) precision medicine clinical trials matching pathogenic germline or tumor alterations to experimental or FDA-approved medications.

Award Amount: $1 million
Indirect Costs: None
Proposal Deadline: Apr 24, 2017
Website: http://www.pcf.org/site/c.leJRIROrEpH/b.5849007/k.F70A/Open_RFAs.htm

20. Harold Amos Medical Faculty Development Program, Robert Wood Johnson Foundation (RWJF)

The AMFDP offers four-year postdoctoral research awards to increase the number of physicians, dentists, and nurses from historically disadvantaged backgrounds who are committed to:

- developing careers and achieving senior rank in academic medicine, dentistry, or nursing;
- fostering the development of succeeding classes of physicians, dentists, and nurses from historically disadvantaged backgrounds;
- improving the health of underserved populations; and/or
- working toward understanding and eliminating health disparities by achieving senior rank in academic medicine, dentistry, or nursing.

Additional awards are available through partnerships with the American Society of Hematology, American Society of Nephrology, and the American Heart Association.

Award Amount: $420,000 paid over 4 years
Indirect Costs: 12%
Application Deadline: Mar 15, 2017
Website: http://www.rwjf.org/en/library/funding-opportunities/2017/harold-amos-medical-faculty-development-program--amfdp---.html

21. Coordinating Efforts to Enhance Hospitals' Role in Population Health (EHPH Solicitation), Robert Wood Johnson Foundation (RWJF) New

RWJF is seeking proposals from organizations who can serve in the role of a coordinating office to enhance hospitals' role in population health. RWJF is committed to building a Culture of Health in America, which includes fostering cross-sector collaboration to improve population health, well-being, and equity. RWJF recognizes that hospitals can be key partners, especially in the communities in which they are located. Subsequently, RWJF will work in partnership with an external coordinating office to expand the impact and sharpen the strategy of the Foundation's efforts to enhance hospitals' role and investment in population health and the social determinants of health. The coordinating office will work with program officers at the Foundation and will maintain relationships with RWJF grantee organizations and other relevant organizations and leaders. The coordinating office is expected to embrace a collaborative learning approach that will help link grantees to one another and amplify what

grantees and other organizations are accomplishing and learning about hospitals and health systems across the United States that are focused on total population health.

In addition, it is important that the coordinating office can apply innovative approaches to monitor progress, national and local trends related to advances in population health and shifting political environments; identify strategic opportunities and gaps (among networks, grantees and others) for the Foundation and the field; and as necessary convene others to generate insights and action; align strategies, and support one another. Through activities and relationships, the coordinating office should improve the Foundation's ability to learn from the field, synthesize and disseminate lessons from across strategically aligned investments, and make contributions that will help broaden the Foundation's perspective of the field and inform its decisions about possible program development in two of the Foundation's thematic focus areas, Healthy Communities and Transforming Health and Health Care Systems.

Award Amount: $800,000 paid over 2 years
Indirect Costs: 12%
Proposal Deadline: Mar 1, 2017
Website: http://www.rwjf.org/en/library/funding-opportunities/2017/coordinating-efforts-to-enhance-hospitals-role-in-population-health.html

22. ERF-SNMMI Molecular Imaging Research Grant for Junior Academic Faculty, Society of Nuclear Medicine and Molecular Imaging (SNMMI)/Education and Research Foundation for Nuclear Medicine and Molecular Imaging
The objective of this program is to provide salary support for one junior faculty member in an academic/research setting to enable them to engage in Molecular Imaging research related to diagnostic or therapeutic applications.

Multidisciplinary projects that investigate methods that intergrate other imaging and/or molecular science with radionuclide methods, including research focusing on hybrid imaging techniques such as PET/CT, SPECT/CT and PET/MRI, are encouraged.

This grant is made possible through a grant from the Education and Research Foundation for SNM.

Award Amount: $105,000 paid over 2 years
Indirect Costs: None
Application Deadline: Mar 16, 2017
Website: http://www.snmmi.org/grants