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February 2017

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2017 NASA Space Radiation Summer School

Application Deadline: Sunday, February 12, 2017, 11:59 p.m. Central Time

ELIGIBILITY:

The NASA Space Radiation Summer School ("NSRSS") is designed for graduate students and postdoctoral fellows with an interest in the radiation sciences (biology, physics, and engineering). Faculty can be considered as auditors under special circumstances. Both foreign nationals and U.S. citizens may apply to the program. All selected students must satisfy Brookhaven National Laboratory safety and security requirements in order to be admitted. In addition, due to the intense nature of the three-week course, selected students must possess oral and written proficiency in the English language. Foreign nationals interested in applying for the NSRSS should review the visa information and requirements for temporary entrance into the United States. (Adobe PDF viewer required)

APPLICATION REQUIREMENTS:

- Applicants must meet the following eligibility requirements:
 - Oral and written proficiency in English required due to intense course content.
 - Selected applicants located outside the United States must confirm their ability to provide for travel to/from the U.S.
- Obtain the following four supporting documents, which are required to complete the online application process:
 - Current Curriculum Vitae**
Your curriculum vitae should contain your contact information and your educational and academic background (including any degrees held and current university enrollment, if applicable) as well as teaching and research experience, publications, presentations, awards, honors, affiliations, grants or fellowships, professional associations, and licenses. Be certain to provide your correct e-mail address, as this will be the primary mode of communication with all applicants.
 - Two Letters of Recommendation**
Letters of recommendation should be provided on institutional/business letterhead with the contact information and signature of the recommending person. Letters without a handwritten or electronic signature will not be accepted. At least one of the recommendation letters should include details regarding the applicant's level of proficiency in the English language. Letters should be sent to Katy Buckaloo at katy.buckaloo@gmail.com or uploaded via the online application process.
 - Statement of Intent** (maximum 300 words)
The Statement of Intent should clearly explain what goals you hope to achieve by attending the NASA Space Radiation Summer School and how the school would complement your specific research interests. The maximum length is 300 words.
- Complete the Online Application Process:
 - All four supporting documents must be uploaded during the online application process. These documents will be accepted in Adobe PDF or Microsoft Word document format. Please format the documents for an 8½" x 11" page. **NOTE: You should obtain the necessary supporting documents prior to accessing the online application form.**
 - Be sure to attach and upload the correct files from your computer. Once an application form is submitted with four attached files, no document substitutions are accepted by the online application system.
 - Only **COMPLETE APPLICATIONS** submitted through the online

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PRIZE OPPORTUNITIES

application process before the posted deadline of **11:59 p.m. U.S. Central Time on Sunday, February 12, 2017** will be considered. Hard copy/paper applications will not be considered.

-Upcoming Deadlines for February, March and April

After you have obtained the required supporting documents, you may begin the application process. Visit <https://spaceradiation.jsc.nasa.gov/nsrss/2017/> for more details and access to the online application.

CORE FACILITIES

-February Events at the Genetic Resources Core Facility

Young Investigator Grant for Probiotics Research (YIGPRO)

Application deadline: February 15, 2017

The Global Probiotics Council (GPC) is again offering three grants for 2017. The purpose of these three annual grants of \$50,000 each is to support new research on probiotics and gastrointestinal microbiota in the United States. Young Investigators committed to basic research on gastrointestinal microbiota, probiotics and their role in health and wellness should apply.

For complete details including application requirements, visit the YIGPRO [website](#).

Bay Area Lyme Foundation Emerging Leader Award

Application deadline: February 15, 2017

This year, the organization will offer one **\$250,000 grant** for associate professors or above, as well as one \$100,000 for post-doc to assistant professors.

Applicants for each award must have:

- A defined approach to improved diagnostics or therapies for Lyme disease
- An affiliation with an academic or research institution, or corporate equivalent
- Demonstrated professional and scientific leadership in biological and medical sciences
- Exhibited scientific curiosity and an established pattern of creative thinking

Full criteria and an application can be found at <http://www.bayarealyme.org/research/emerging-leader-award>. Potential applicants with questions should contact info@bayarealyme.org.

If you have questions related to the posting of this information, please contact Christine Cuccia at 908-947-0500 x703 or Christine.Cuccia@tmstrat.com.

DHHS - Partnerships to Achieve Health Equity

Internal Deadline: February 28, 2017

Maximum Award Amount: \$2,000,000

Opportunity Summary:

The Partnership program is intended to demonstrate that partnerships between Federal agencies and organizations with a nationwide or regional reach, focus or impact can efficiently and effectively do one of the following:

1. **Improve access to and utilization of care** by racial and ethnic minority and/or disadvantaged populations;
2. **Develop innovative models for managing multiple chronic conditions** including health promotion and disease prevention for individuals with multiple chronic conditions that disparately affect racial and ethnic minorities and affect morbidity;
3. **Increase the diversity of the health workforce** including health professionals, health researchers and health scientists through programs at the high school or undergraduate level that focus on racial and ethnic health disparities and health equity, and which include mentoring as a core component; or

4. **Increase data** availability and utilization of data that increases the knowledge base regarding health disparities and facilitates the development, implementation and assessment of health equity activities, including but not limited to the creation of new linked datasets, using longitudinal and/or linked data sets, design and test innovative models that explore the independent and interactive influences of social determinants of health on a) health behaviors, b) utilization of health services, and c) health conditions, such that causal relationships are demonstrated, and training and technical support in data use for community-based and/or public health partners engaged in health equity efforts.

Eligibility & Requirements:

- There are no limits or restrictions.

Internal Nomination Process:

Interested applicants should send the following documents **in sequence in one PDF** to resapp@jhu.edu no later than **4 p.m. on February 28, 2017**:

1. JHU Limited Submission Cover Sheet
2. Abstract (one page, double-spaced)
3. Proposal (maximum of four pages of text only, single spaced: 12-pt font and one-inch margins) (Note: figures, tables, and other reference material may be included in addition to the 4 pg. text limit)
4. Curriculum Vitae of investigator, including current external research support and publications
5. Budget (two pages maximum)
6. Letter of Recommendation from the Department Chair/Director. Letters of Recommendation can be submitted separately to resapp@jhu.edu stating the applicant's name in the subject line. Each applicant should expect to receive a confirmation of receipt of their materials. Applicants not receiving an acknowledgement, or having any questions, should contact the team via resapp@jhu.edu.

Society for Vascular Surgery Foundation Clinical Research Seed Grant Program

Application Deadline: March 1, 2017

In recognition of the importance of clinical investigation in vascular disease, the Society for Vascular Surgery (SVS) Foundation announces the Clinical Research Seed Grant program.

It is vitally important to patients and to the specialty that vascular surgeons play prominent roles in both industry and investigator-initiated clinical trials. The Clinical Research Seed Grant program has the following goals:

- Encourage the interest and development of clinical investigators among the SVS membership, particularly junior members or those with limited prior experience as Principal Investigators
- Provide direct support for pilot clinical projects that have potential to develop into larger studies fundable by industry or governmental sources

Scope

Clinical research, preferably patient-oriented: research conducted with human subjects or on material of human origin such as tissues, specimens and cognitive phenomena for which an investigator directly interacts with human subjects.

Applications addressing one of the [SVS Clinical Research Priorities](#) are particularly encouraged. Small-scale clinical trials and ancillary studies in the setting of existing clinical trials (industry or NIH-supported) will be accepted. Relevant examples include:

- Ancillary studies coupled to existing clinical trials. A letter of support from the primary trial sponsor is required.
- Pilot clinical trials of any type
- Studies on the natural history of vascular disease, pathophysiology, or

mechanisms underlying success or failure of vascular interventions

- Application of quality-of-life, functional status, and resource utilization measures to assess the impact of vascular interventions
 - Development and validation of clinical risk-prediction models or diagnostic tools
 - Studies addressing the nature of disparities in care and outcomes
- Funding

\$22,500 will be awarded for direct costs for a one-year period. Costs for laboratory assays, imaging studies (as appropriate), data collection, and statistical support are allowable. Principal investigator salary, institutional overhead expenses, major equipment and travel expenses are not allowed.

Eligibility

The Principal Investigator for the Clinical Research Seed Grant must be 1) an SVS Active Member within the first 10 years of practice or 2) a fellowship- or integrated residency-trained, board-eligible, vascular surgeon within the first 10 years of practice with a full-time faculty position with an SVS Active Member serving as mentor.

The Principal Investigator may submit only one application for the Clinical Research Seed Grant. Residents and fellows are not eligible.

Application Process

The application deadline is March 1, 2017. Decisions regarding the award are sent to applicants within 2 months of the application deadline. Review more details on the [SVS website](#).

Progeria Research Foundation Grants

Application deadline: March 21, 2017

The Progeria Research Foundation (PRF) is the only organization in the world dedicated to discovering treatments and the cure for Progeria and its aging-related disorders. Progeria is a rare, fatal, "premature aging" disease that affects children, who die of heart disease (heart attacks or stroke) at an average age of 14 years - the same heart disease that affects millions of normal aging adults (atherosclerosis). Scientific studies have solidified biological links between Progeria, heart disease and aging. Investigation of the disease mechanism Progeria will help not only children with Progeria, but has implications for heart attacks, strokes and other aging-related conditions. PRF encourages proposals in the areas listed below. Investigators are not limited to applications that address these priorities, but rather are encouraged to use them to better understand the needs of the field at this time.

PRF is seeking proposals that address the following priorities:

1. Discovery of biological markers of disease in HGPS that can be assessed in human and/or mouse samples. Highest priority will be given to those markers that can be assayed in easily obtainable human samples such as blood, urine, and cheek swabs. In addition, proposals that explore biomarker relevance to disease process and /or change in markers with disease treatment are encouraged.
2. Discovery and/or testing of candidate treatment compounds in both cell based and mouse models of HGPS. Of note, proposals should test compounds in a progerin-producing mouse model as the priority. Comparisons to other mouse models of disease, such as ZMPSTE24 -/- and other non-progerin producing mouse models is acceptable, but only as a comparison to progerinproducing models.

Visit the [PRF website](#) for complete program information. Awards are given in 3 categories with varying funding levels and length of time of up to \$100,000 per year, for up to three years. Projects must have specific relevance to HGPS, and show promise for contributing to the scientific or clinical advancement in this field of study. Principal investigators must hold post-doctoral positions or beyond. PI's wishing to have a project performed by a post-doctoral associate must act as co-principal investigators.

Contact The Progeria Research Foundation at 978-535-2594 or researchgrants@progeriaresearch.org with questions.

NIH - Shared Instrumentation for Animal Research (SIFAR) Grant Program (S10)

Internal deadline: March 30, 2017
Maximum Award Amount: \$750,000

Opportunity Summary:

The Shared Instrumentation for Animal Research (SIFAR) Grant Program encourages applications from groups of NIH-funded investigators to purchase or upgrade scientific instruments necessary to carry out animal experiments in all areas of biomedical research supported by the NIH. Applicants may request clusters of commercially available instruments configured as specialized integrated systems or as series of instruments to support a thematic workflow in a well-defined area of research using animals or related materials. Priority will be given to specialized clusters of instruments and to uniquely configured systems to support innovative and potentially transformative investigations. Requests for a single instrument will be considered only if the instrument is to be placed in a barrier facility. This Funding Opportunity Announcement (FOA) supports requests for state-of-the-art commercially available technologies needed for NIH-funded research using any vertebrate and invertebrate animal species. It is expected that the use of the awarded instruments will enhance the scientific rigor of animal research and improve the reproducibility of experimental outcomes. One item of the requested instrumentation must cost at least \$50,000. No instrument in a cluster can cost less than \$20,000. There is no maximum price requirement; however, the maximum award is \$750,000.

Eligibility & Requirements:

- The PD/PI chosen for this application should have documented (in the biographical sketch) technical expertise directly related to the type of the chosen instrument. The PD/PI does not need to have an NIH research grant or any other research support but is expected to be an expert on the requested instrument. The PD/PI may be a Core director or non-tenured faculty member of the applicant organization, must be affiliated with the applicant organization, and must be registered on eRA Commons. Multiple PDs/Pis are not allowed under the S10 mechanism.
- Meet Major User Group eligibility requirements ([see here](#)).
- Applications to NIH require a table of previously awarded S10 instruments. Tables will be provided upon approval to proceed.

Internal Nomination Process:

In general, concurrent SIFAR, SIG and/or HEI applications for the same instruments (or the same type of instrument with added special accessories to meet the HEI budget requirement or the same instrument which is a part of a SIFAR cluster) are not allowed. If two or more S10 (either SIFAR, SIG or HEI) applications are submitted for similar equipment from the same institution, documentation from a high level institutional official must be provided, stating that this is not an unintended duplication, but part of a campus-wide instrumentation plan. Due to this requirement, submissions from JHU will be coordinated by the OVPR.

Interested applicants should send a letter of intent (PDF) to resapp@jhu.edu no later than 4 p.m. on March 30, 2017. This LOI (limited to 2 pages) must include the following:

1. [JHU Limited Submission Cover Sheet](#)
2. Description of the proposed instrumentation
3. Listing of the major user group (meet the [Major User Group requirements](#) - see Section III: 3)
4. Estimate of the cost and the amount to be requested in the grant proposal. If the cost exceeds the request, a description of the source(s) of funding for the balance.
5. Explanation of how the costs of installation, maintenance, support personnel, and service will be met. Each applicant should expect to receive a confirmation of receipt of their materials. Applicants not receiving an acknowledgement, or having any questions, should contact the team via resapp@jhu.edu. For more information, visit <https://grants.nih.gov/grants/guide/pa-files/PAR-17-075.html>.

NIH - Shared Instrumentation Grant (SIG) Program (S10)

Internal deadline: March 30, 2017

Maximum Award Amount: \$600,000

The Shared Instrument Grant (SIG) program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instruments or integrated systems that cost at least \$50,000. The maximum award is \$600,000. Types of instruments supported include, but are not limited to: X-ray diffraction systems, nuclear magnetic resonance (NMR) and mass spectrometers, DNA and protein sequencers, biosensors, electron and confocal microscopes, cell-sorters, and biomedical imagers. An application for more than one type of instrumentation is not appropriate.

Eligibility & Requirements:

- The PD/PI chosen for this application should have documented (in the biographical sketch) technical expertise directly related to the type of the chosen instrument. The PD/PI does not need to have an NIH research grant or any other research support but is expected to be an expert on the requested instrument. The PD/PI may be a Core director or non-tenured faculty member of the applicant organization, must be affiliated with the applicant organization, and must be registered on eRA Commons. Multiple PDs/Pis are not allowed under the S10 mechanism.
- Meet Major User Group eligibility requirements ([see here](#)).
- Applications to NIH require a table of previously awarded S10 instruments. Tables will be provided upon approval to proceed.

Internal Nomination Process:

There is no restriction on the number of applications an institution can submit to the SIG and/or High-End Instrumentation (HEI) Programs each year **provided the applications request different types of equipment**. Concurrent SIG and/or HEI applications for the same instrument (or the same type of instrument with added special accessories to meet the HEI budget requirement) are not allowed, in general. If two or more S10 (either SIG or HEI) applications are submitted for similar equipment from the same institution, **documentation from a high level institutional official must be provided stating that this is not an unintended duplication, but part of a campus wide instrumentation plan**. Due to this requirement, submissions from JHU will be coordinated by the OVPR.

Interested applicants should send a letter of intent (PDF) to resapp@jhu.edu **no later than 4 p.m. on March 30, 2017**. This LOI (limited to 2 pages) must include the following:

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5. Explanation of how the costs of installation, maintenance, support personnel, and service will be met. Each applicant should expect to receive a confirmation of receipt of their materials. Applicants not receiving an acknowledgement, or having any questions, should contact the team via resapp@jhu.edu. For more information, visit <https://grants.nih.gov/grants/guide/pa-files/PAR-17-074.html>.

Michael J. Fox Foundation (MJFF) Challenge

No application deadline

The Michael J. Fox Foundation is sponsoring a [\\$2 million prize](#) to the **first team** to develop a viable selective alpha-synuclein PET tracer and agree to make that tracer available broadly.

The ability to image alpha-synuclein deposition in the brain would be a game-changing achievement for the Parkinson's disease (PD) field. The accumulation of aggregated alpha-synuclein is a pathological hallmark of PD and a priority target for drug development given its hypothesized contribution to neurodegeneration. In vivo imaging of alpha-synuclein pathology could be useful as a biomarker of the presence of disease and

disease progression and as a pharmacodynamic tool for drug development. With this prize, the Foundation seeks to attract research teams and accelerate momentum to speed the development of such a tracer.

Contestants: Anyone is eligible for the prize who agrees to all contest rules. Contestants may be MJFF funded or not and can be from either academia or industry.

Contest rules:

1. Contestants must apply for the prize with pre-clinical and clinical data supporting the broad use of their alpha-synuclein radiotracer. Judges may ask for additional data, including but not limited to raw imaging data.
2. **NOTE:** All contestants must agree to make the winning radiotracer available for use by The Michael J. Fox Foundation and MJFF awardees through a nonexclusive license or other MJFF-approved mechanism.

Criteria for winning: The winning contestant must demonstrate that the radiotracer binds with relatively high selectivity to alpha-synuclein according to pre-specified criteria and must demonstrate proof-of-concept in human subjects, including people with Parkinson's disease and/or another synucleinopathy. See below for more details on submission requirements.

Timeline: There is no deadline for submissions. The \$2 million award will be issued to the first contestant who submits compelling evidence of a viable selective tracer and agrees to its widespread use. If no award is given by mid-2018, The Michael J. Fox Foundation will evaluate the state of the field and utility of such a prize.

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