FUJIFILM | VISUALSONICS

NIH S10 Grants: Pre-Award Support Worksheet

Scope

This document serves as a preliminary guide for the initial planning of a NIH Shared Instrumentation (S10) grant submission. Here, we provide a brief overview of the 3 types of NIH S10 awards so that you may choose which is most appropriate. The worksheet will help you to organize information and develop a research theme(s) that will assist your group in justifying the need for a Vevo imaging system offered by FUJIFILM VisualSonics.

By identifying a team of users and applications on the worksheet, you are providing us with the necessary information to determine the key imaging features and accessories needed to support your research and configure a customized system that will offer maximum utilization and optimize your grant funding. In turn, this will allow you to prepare for budgeting purposes and acquiring institutional support/commitment.

This pre-award support is part of our continued efforts to work with FUJIFILM VisualSonics' customers—to advance translational research within the preclinical scientific community.

What types of instrumentation grants does the NIH have?

The NIH Office of Research Infrastructure Program S10 grant awards support the purchase of commercially available instruments to NIH funded investigators. The awards are open to US public and private institutions of higher education and non-profit domestic institutions such as hospitals and research organizations.

The awards are issued for one year and do not require matching funds; however, they do require your institution to support the associated infrastructure of the instrument such as service contracts, space to house the equipment, and salaries of technical personnel (if required).

Three types of S10 awards

S10 Award Type	Shared Instrument Grant Program (SIG)	High-End Instrumentation Grant Program (HEI)	Shared Instrumentation for Animal Research Grant Program (SIFAR)
Dollar Range	$50K–$600K	$600,001–$2M	$50K–$750K
Support Type	Single instrument purchase or upgrade	Single instrument purchase or upgrade	Multiple instruments purchase or upgrade that supports animal research (doesn't support single instruments, no single instrument in the cluster can be less than $20K)
Vevo Imaging System Recommendations	Vevo® 2100 to Vevo® 3100 upgrade; purchase of a new Vevo® 3100; adding the LAZR-X to an existing Vevo® 3100; or LAZR-X* (with some configurations)	Vevo® LAZR to LAZR-X upgrade or purchase of a new Vevo® LAZR-X	Vevo® 2100 to Vevo® 3100 upgrade in combination with other equipment; purchase of a new Vevo® 3100 in combination with other equipment; adding the LAZR-X to an existing Vevo® 3100 in combination with other equipment; or LAZR-X* (with some configurations)

These grants that support FUJIFILM VisualSonics Vevo imaging systems are meant to be shared among investigators. Therefore, regardless of the S10 award that you are applying for, you must have a **minimum of 3 Principal Investigators** that demonstrate substantial need for the requested instrument and have active NIH grants.

The NIH does not intend for these awards to be used to purchase equipment used in clinical trials or billable procedures.

All funding opportunities in the S10 program (Shared Instrumentation Grant-SIG, Shared Instrumentation for Animal Research Grant-SIFAR, and the High-End Instrumentation Grant-HEI) have a deadline of **May 31**, Scientific Review Sept-Nov, Advisory Council Review January, Award Start Date February.

Please visit the NIH's website for more details regarding these grants: **https://orip.nih.gov/construction-and-instruments/s10-instrumentation-programs**

Steps to fill in the worksheet

Fill in the information in Columns 1-6. When filling out the PDF form, open in Adobe Acrobat and type out the information in the fields provided. Once completed, re-save the PDF.

1. Investigators

This column should contain the name(s) of the investigators that will be using the machine. Row 1 of this column should contain the name of the main investigator that will be in charge of the grant application. Subsequent cells in the column should contain the names of all other interested users.

2. NIH Funding

This column should indicate if the researcher has current NIH funding and the year that funding will end. Please indicate if they have funding from a different source.

NOTE: it is not required that all proposed investigators have NIH funding to take part in the grant application. However, the S10 awards require that a "Major User" group of 3 or more investigators have current NIH-funded research awards (i.e. D, K, P, R, and U mechanisms are acceptable). This "Major User" group must be responsible for 75% of the machine usage.

3. Research Area/Department

This column should contain information on the general research interest of the individual. These topics could include cardiology, cancer, vascular biology, developmental/embryology, neurology, organ pathology (kidney or liver diseases), ophthalmology, etc.

4. Models/Developmental Stage

This column should contain information about the models you are using/proposing. Examples of models include chick embryos, zebrafish, mice, rats, rabbits, primates, dogs, cats, horses, etc. Developmental stage can be classified as embryo, neonate, or adult.

5. Disease/Treatment

This column should contain information about the disease being studied, how the disease is being induced, the anatomical site(s) of interest, and what the potential treatment(s) being researched is (if applicable). *Please include any additional information relevant to the experiments.*

For example: "ischemic heart failure induced through permanent ligation of the coronary artery, looking specifically at the left ventricle of the heart but also interested in examining renal perfusion. DiR-labelled stem cells will be injected in the left ventricle using ultrasound guidance followed over time using photoacoustic imaging. We also hope to monitor the restoration of oxygen levels in the myocardium over time using photoacoustics."

6. Parameters Evaluated

This column should include specific measurements that the investigator is interested in.

For example: "Cardiac function including 4D volume measurements and strain parameters. We are also interested in seeing how the labelled stem cells can restore oxygen saturation to the heart overtime." *This section can also be left blank if you are unsure how the Vevo Imaging System can assist with your research.*

Investigator(s)	NIH Funding	Research Area/ Department	Model/Stage	Disease/ Treatment	Parameters Evaluated

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I've finished the worksheet, now what?

Once you have completed the worksheet, save the PDF form and **please email it to your sales manager or to Sarah Burris, PhD, Scientific Liasion at sarah.burris@fujifilm. com, with the subject heading "NIH S10 Worksheet",** so that we may identify areas in which our imaging solutions can make the biggest impact on your research.

Once we have reviewed the information, we will contact you to schedule a phone consultation with your sales manager and our Scientific Liaison to discuss this information and develop an action plan to create a winning grant. **Please visit our website for a full list of product details and applications: https://visualsonics.com**