

SIFAR S10 GUIDE FOR REVIEWERS

Shared Instrumentation for Animal Research Grant Applications

Purpose of the Award

- Encourages applications from groups of NIH-supported investigators to obtain commercially available instruments configured as specialized integrated systems or as a series of instruments to support a well-defined area of biomedical research that uses animals or related materials.
- Any instrument requested as a part of a cluster or series of instruments must be commercially available.
- The SIFAR mechanism requires the purchase of at least two instruments to improve workflow of animal-based research in a well-defined area of biomedical research, such as neurophysiology, cardiac physiology, immunology, developmental biology or neurobehavioral sciences.
- Examples include:
 - a series of instruments for high-throughput animal-based experiments in areas such as genomics, phenotyping, or metabolomics; or
 - clusters of instruments that may improve surgical approaches by incorporating robotics and real-time decision-making procedures based on imaging or molecular characterizations of tissue are similarly relevant;
 - a combination of microfluidics-related technologies with high-throughput and high-content screening may advance phenotyping procedures.
 - a combination of optical imaging, flow-cytometry, and mass spectrometry may improve and speed up molecular profiling.
 - integrated systems for cognitive-behavioral studies or advanced monitoring set-ups for comprehensive physiological and metabolic assessment will also be considered.

Details

- Maximum award for the combined instruments is \$750,000; at least one item of the requested instrumentation must cost at least \$50,000; no instrument in a cluster can cost less than \$20,000.
- Reviewers should not evaluate the scientific merit of the research project components, because these have been previously peer reviewed.
- Consult the Funding Opportunity Announcement (FOA) [PAR-20-112](#) to read the Review and Selection Process section.
- NO MPI is allowed. Only one contact PI is allowed.
- No videos are allowed in the application, as indicated in the PAR.