Research Development Fund – Fall 2022 Application Template
Submission Deadline: *12:00PM CDT Monday – October 10, 2022,* to rdf@tamu.edu

*****Applications exceeding page limits for any section or do not follow the template will not be reviewed*****

Application Title: Request for TIGM Equipment Upgrades

Lead contact for RDF Application:
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Key Participating Units: TIGM

RDF Amount Requested ($): $164,459.51

Executive Summary

Include the overall scope/objective of the application. What research infrastructure enhancement is proposed? How will research at Texas A&M be improved? Who (units) will benefit at the Brazos County locations? How will external funding be enhanced? What outcomes are anticipated? Explain clearly how this investment supports Texas A&M research infrastructure for broad campus benefit.

The overall objective of this application is to replace and/or update several pieces of equipment which are essential for TIGM to continue and serve as a premier transgenic facility which enhances TAMUS faculty research. Most of the equipment that needs replacement is still from the original State award which created TIGM in 2005. No similar resources exist locally.

During FY 22, TIGM served 57 TAMUS faculty. 7 from AgriLife Research, 22 from CVM, 21 from HSC, and 7 from TAMU. We pride ourselves on being a resource for advancing research for TAMUS and are a part of two current grants where TIGM personnel is actively involved. Dr. David Threadgill's TiCER NIEHS P-30, and a grant from Revive and Restore with Dr. Rosemary Walzem.

TIGM is the only facility on campus that routinely breeds and provides stock colonies (wild type mice) to TAMUS investigators on an as-needed basis. More than 1,500 mice from 6 strains were delivered to 22 researchers. The previous two RDF awards obtained by TIGM allowed lowering the costs for internal users via increased efficiency. The current request will maintain and approve the ability to provide transgenic services, enhancing our ability to perform tasks such as plasmid generation in house, as our shaking incubator is broken. Lowering costs and expediting duration of projects will assist TIGM in becoming better resources for Texas A&M researchers, thus increasing usage and income from user services, and assisting investigator's application for further funding. The requested $164,459.51 for those essential equipment units would ensure our ability to continue to serve and promote research at Texas A&M University System.

By facilitating translational research using functional genomics, scientists at TIGM are pioneering the development of life-changing medical breakthroughs and advancing personalized medicine on a global scale. To date more than 275 peer reviewed journal articles have been published using TIGM resources in highly ranked magazines including Science, Nature, and Cell.

For more information on TIGM's activity, publications and a detailed list of services please visit our website at www.TIGM.org