

THE UNIVERSITY OF MICHIGAN
REGENTS COMMUNICATION

ACTION REQUEST

Subject: Project Agreements with the University of Michigan

Action Requested: Authorization to enter into or amend Agreements

Preamble:

Statutory conflicts of interest situations were identified by the Office of Research and Sponsored Projects while reviewing Proposal Approval Forms that then triggered a review by the Medical School Conflict of Interest Board and/or the UMOR Conflict of Interest Review Committee. Plans for management of the possible risks associated with the conflicts of interest will be developed and approved by the Board and/or Committee and may require agreement by the parties involved at time of award.

These proposed project (e.g., research, sponsored activity, and/or subcontract) agreements (“Agreement”) and/or amendments to Agreements (“Amendments”) fall under the State of Michigan Conflict of Interest Statute because University of Michigan (“University”) employees have activities, relationships, or interests in the companies as described in Attachment A. The law permits such Agreements provided they are disclosed to the Board of Regents (“Regents”) of the University and approved in advance by a 2/3 vote.

Agreement Terms:

The terms of the Agreements and/or Amendments conform to University policy. The funding support will not exceed the amount reported in Attachment A for each Agreement and/or Amendment. Since projects are often amended, these Agreements and/or Amendments include provisions for changes in time and scope. University procedures for approval of these changes will be followed and additional conflict of interest review will be done as appropriate.

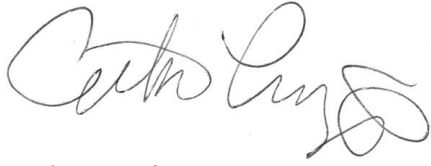
Impact of the Agreement:

The Agreements and/or Amendments will provide support of investigator’s effort to use their expertise and University laboratories, as well as other University resources, to execute the projects as reported in Attachment A.

Recommendations:

These matters have been reviewed and approved by the Medical School Conflict of Interest Board and/or the UMOR Conflict of Interest Review Committee. In light of this disclosure and our finding that the Agreements and Amendments were negotiated in conformance with standard University practices, I recommend that the Board of Regents approve the University’s entering into or amending the Agreements referenced in Attachment A.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Arthur Lupia', written in a cursive style.

Arthur Lupia
Interim Vice President for Research and Innovation

May 2024

Attachment A

Project #1

STTR Phase I Subcontract Agreement between the University and Abcon Therapeutics, Inc. Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: Anti-CD6, a new type of immunotherapy for triple-negative breast cancer (Abcon STTR)	U-M Project ID: 24-PAF06830
Direct Sponsor: Abcon Therapeutics, Inc.	Prime Sponsor: National Institutes of Health
Principal Investigator/Department: David Fox, Rheumatology	
Project Duration: One (1) Year	Funding Support: \$240,000
Purpose: The purpose of this project is to extend understanding of the efficacy and safety of an anti-CD6 monoclonal antibody as a novel immunotherapy for breast cancer that is resistant to other treatments.	
<u>University Employee; University Title; Relationship with Abcon Therapeutics, Inc.</u>	
<ul style="list-style-type: none">• David Fox; Professor, Rheumatology; Partial Owner	

Project #2

SBIR Phase II Subcontract Agreement between the University and Amphionic LLC Reviewed by the UMOR Conflict of Interest Review Committee	
<u>Project Information</u>	
Title: DARPA EPIC Phase II - Efficient, low-cost, high-resolution imaging of hard x-rays using PbTe nanosemiconductor-based composites	U-M Project ID: 24-PAF00265
Direct Sponsor: Amphionic LLC	Prime Sponsor: Department of Defense Advanced Research Projects Agency
Principal Investigator/Department: Mark Hammig, Nuclear Engineering and Radiological Sciences	
Project Duration: Three (3) Years	Funding Support: \$578,767
Purpose: The purpose of this project is to exploit the nanoscale physics delivered by percolating networks of PbTe nanoparticles to develop an efficient, low-cost imager of hard x-rays (5 – 300 keV) that has high spatial (< 55 mm) and energy resolutions (< 2 %).	
<u>University Employee; University Title; Relationship with Amphionic LLC</u>	
<ul style="list-style-type: none">• Mark Hammig; Research Scientist, Nuclear Engineering and Radiological Sciences; Partial Owner• Suneel Joglekar; Research Fellow, Nuclear Engineering and Radiological Sciences; CEO• Drew Vecchio; Research Fellow, Nuclear Engineering and Radiological Sciences; Vice President of Engineered Materials	

Project #3

SBIR Phase II Subcontract Agreement between the University and Amphionic LLC Reviewed by the UMOR Conflict of Interest Review Committee	
<u>Project Information</u>	
Title: DARPA ARS Phase II - Lightweight enhanced-attenuation shielding for high-energy gamma-rays based on nanostructured composite materials	U-M Project ID: 24-PAF04695
Direct Sponsor: Amphionic LLC	Prime Sponsor: Department of Defense Advanced Research Projects Agency
Principal Investigator/Department: Mark Hammig, Nuclear Engineering and Radiological Sciences	
Project Duration: Three (3) Years	Funding Support: \$378,000
Purpose: The purpose of this project is to first progress the innovations developed during Phase I, including the bottom-up and top-down scalable manufacturing processes for nanostructured shielding with enhanced attenuation to high-energy (> 1 MeV) gamma-rays, while analyzing the composition of the nanostructured materials as well as validating their enhanced attenuation. Concurrently, the project team will refine modeling tools that can simulate interfacial scattering effects across a wide range of radiation-matter interaction phenomena, which will progress the technology towards the overall goal of developing scalable, largevolume, lightweight enhanced-attenuation nanostructured composite shielding.	
<u>University Employee; University Title; Relationship with Amphionic LLC</u>	
<ul style="list-style-type: none">● Mark Hammig; Research Scientist, Nuclear Engineering and Radiological Sciences; Partial Owner● Suneel Joglekar; Research Fellow, Nuclear Engineering and Radiological Sciences; CEO● Drew Vecchio; Research Fellow, Nuclear Engineering and Radiological Sciences; Vice President of Engineered Materials	

Project #4

Subcontract Agreement between the University and And Battery Aero Inc. Reviewed by the UMOR Conflict of Interest Review Committee	
<u>Project Information</u>	
Title: HERALD - High EneRgy Alkali Light-metal battery Design	U-M Project ID: 24-PAF02449
Direct Sponsor: And Battery Aero Inc.	Prime Sponsor: Department of Energy
Principal Investigator/Department: Venkat Viswanathan, Aerospace Engineering	
Project Duration: Three (3) Years	Funding Support: \$2,000,000
Purpose: The purpose of this project is to deliver a >1,000 Wh/kg and >1,000 Wh/L cell at a levelized cost <\$0.3/kWh using nano-structured cathode with MxAlHaly as the active materials and optimized electrolytes.	
<u>University Employee; University Title; Relationship with And Battery Aero Inc.</u>	
<ul style="list-style-type: none">● Venkat Viswanathan; Associate Professor, Aerospace Engineering; Partial Owner	

Project #5

Other Sponsored Activity Agreement between the University and AngioInsight, Inc. Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: Feasibility Study of a Reduced Order Model for Calculating FFR Using Angiographic Data	U-M Project ID: 24-PAF06058
Direct Sponsor: AngioInsight, Inc.	
Principal Investigator/Department: C Alberto Figueroa, Vascular Surgery Section	
Project Duration: Five (5) Years	Funding Support: \$125,000
Purpose: The purpose of this activity is to provide AngioInsight, Inc. with access to University of Michigan datasets for them to develop AI/ML algorithms for anatomical and functional characterization of coronary artery disease (CAD) using angiography data.	
<u>University Employee; University Title; Relationship with AngioInsight, Inc.</u>	
<ul style="list-style-type: none">● Kayvan Najarian; Professor, Computational Medicine and Bioinformatics; Partial Owner● Brahmajee Nallamothu; Professor, Internal Medicine-Cardiovascular Medicine; Partial Owner● C Alberto Figueroa; Research Professor, Biomedical Engineering-Medical School and Vascular Surgery; Partial Owner	

Project #6

Research Agreement between the University and Bloodscan Biotech Inc. Reviewed by the UMOR Conflict of Interest Review Committee	
<u>Project Information</u>	
Title: Nagrath Bloodscan Biotech	U-M Project ID: 24-PAF06223
Direct Sponsor: Bloodscan Biotech Inc.	
Principal Investigator/Department: Sunitha Nagrath, Chemical Engineering	
Project Duration: Two (2) Years	Funding Support: \$100,000
Purpose: The purpose of this project is to run cell separation experiments to test and optimize technologies, study the effect of flow rate and other engineering parameters on the efficiency of cell separation, benchmark devices for the separation efficiency based on cell line experiments, and perform molecular characterization and expansion of cells.	
<u>University Employee; University Title; Relationship with Bloodscan Biotech Inc.</u>	
<ul style="list-style-type: none">● Sunitha Nagrath; Professor, Chemical Engineering; Partial Owner	

Project #7**STTR Phase I Subcontract Agreement between the University and Ferroximend, LLC
Reviewed by the Medical School Conflict of Interest Board****Project Information****Title:** STTR - Developing a Self-Contained, Automated Device to Process Adipose Tissue into Stromal Vascular Fraction for Surgical Utilization**U-M Project ID:** 24-PAF05959**Direct Sponsor:** Ferroximend, LLC**Prime Sponsor:** National Institutes of Health**Principal Investigator/Department:** Steve Buchman, Plastic Surgery**Project Duration:** One (1) Year**Funding Support:** \$84,111**Purpose:** The purpose of this project is to develop a prototype device that processes adipose tissue into stromal vascular fraction. This device should be suitable for a non-skilled individual to operate within the timeframe of a typical surgery.**University Employee; University Title; Relationship with Ferroximend, LLC**

- Steve Buchman; Professor, Plastic Surgery; Partial Owner

Project #8**SBIR Phase II Subcontract Agreement between the University and Inspire Rx LLC
Reviewed by the Medical School Conflict of Interest Board****Project Information****Title:** Personal Respiratory Isolation System for Safe Transport and Treatment of Patients with Highly Transmissible Infectious Diseases**U-M Project ID:** 24-PAF06542**Direct Sponsor:** Inspire Rx LLC**Prime Sponsor:** National Institutes of Health**Principal Investigator/Department:** Nathaniel Hunt, Emergency Medicine**Project Duration:** One (1) Year**Funding Support:** \$151,444**Purpose:** The purpose of this project is to refine, test and submit for FDA approval a compact, portable, self-contained, personal negative pressure environment (using AerosolVE BioHelmet) to prevent spread of aerosolized pathogens from patients to frontline healthcare workers while enabling non-invasive oxygen therapies on patients with any respiratory disease such as COVID-19, tuberculosis, SARS, etc.**University Employee; University Title; Relationship with Inspire Rx LLC**

- Benjamin Bassin; Clinical Associate Professor, Emergency Medicine; Chief Medical Officer
- Kevin Ward; Professor, Emergency Medicine; Partial Owner

Project #9**STTR Phase II Subcontract Agreement between the University and PhotoSonoX LLC
Reviewed by the Medical School Conflict of Interest Board****Project Information****Title:** Photo-mediated Ultrasound Therapy for Treatment of Cutaneous Vascular Malformations**U-M Project ID:** 24-PAF06371**Direct Sponsor:** PhotoSonoX LLC**Prime:** National Institutes of Health**Principal Investigator/Department:** Xueding Wang, Biomedical Engineering**Project Duration:** Three (3) Years**Funding Support:** \$999,845**Purpose:** The purpose of this project is to perform the following tasks: 1) Develop a clinically ready β -prototype PUT system for PWS treatment; 2) Optimize the β -prototype device in chicken wattle model; and 3) Perform a phase 1 human clinical trial to evaluate the operation procedure, safety, and efficacy of the β -prototype PUT system.**University Employee; University Title; Relationship with PhotoSonoX LLC**

- Yannis Paulus; Professor, Ophthalmology & Visual Science; Partial Owner
- Xueding Wang; Professor, Biomedical Engineering; Partial Owner

Project #10**STTR Phase I Subcontract Agreement between the University and Tulip Make Me Move Desk, LLC
Reviewed by the Medical School Conflict of Interest Board****Project Information****Title:** STTR Phase I Pongmala/Yung: Development of a Multifunctional Rehabilitation Standing and Stepping Device for older persons with Physical and Cognitive Frailty**U-M Project ID:** 24-PAF06268**Direct Sponsor:** Tulip Make Me Move Desk, LLC**Prime Sponsor:** National Institutes of Health**Principal Investigator/Department:** Fay Pongmala, Radiology**Project Duration:** One (1) Year**Funding Support:** \$299,624**Purpose:** The purpose of this project is to provide a cost-effective, easy to implement and sustainable rehabilitation option by enabling people to replace sedentary time with physical activity in the home environment for older persons with physical and/or cognitive frailty with the goal to mitigate, and possibly reverse the diagnosis of cognitive frailty.**University Employee; University Title; Relationship with Tulip Make Me Move Desk, LLC**

- Nicolaas Bohnen; Professor, Radiology; Partial Owner

Project #11

STTR Phase II Subcontract Agreement between the University and Tulip Make Me Move Desk, LLC Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: STTR Phase II Pongmala: In-Home Multifunctional Rehabilitation Standing and Stepping Device for People with Parkinson's disease Phase II	U-M Project ID: 24-PAF06415
Direct Sponsor: Tulip Make Me Move Desk, LLC	Prime Sponsor: National Institutes of Health
Principal Investigator/Department: Fay Pongmala, Radiology	
Project Duration: Three (3) Years	Funding Support: \$1,760,912
Purpose: The purpose of this project is to conduct a 12-week randomized controlled, single blinded clinical trial of in-home promotion of low-intensity physical activity while decreasing sedentary behavior using a multifunctional rehabilitation standing and stepping device in persons with Parkinson's disease with postural instability and gait difficulty features.	
<u>University Employee; University Title; Relationship with Tulip Make Me Move Desk, LLC</u> <ul style="list-style-type: none">Nicolaas Bohnen; Professor, Radiology; Partial Owner	

Project #12

STTR Phase I Subcontract Agreement between the University and Tulip Make Me Move Desk, LLC Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: STTR Ph I A1 Pongmala/Baylin: Development of elastic standing-enhanced dynamic standing desk (ESEDESK) to manage metabolic risk in overweight office workers	U-M Project ID: 24-PAF06522
Direct Sponsor: Tulip Make Me Move Desk, LLC	Prime Sponsor: National Institutes of Health
Principal Investigator/Department: Fay Pongmala, Radiology	
Project Duration: One (1) Year	Funding Support: \$207,164
Purpose: The purpose of this project is to test the hypothesis that use of the ESEDESK can further improve on the metabolic effects observed with the dynamic standing desk (DSK) alone by an estimated effect size of 40% incremental improvement based on a combination of improved standing tolerance and increased muscular metabolic effects.	
<u>University Employee; University Title; Relationship with Tulip Make Me Move Desk, LLC</u> <ul style="list-style-type: none">Nicolaas Bohnen; Professor, Radiology; Partial Owner	

Project #13

STTR Phase I Subcontract Agreement between the University and Tulip Make Me Move Desk, LLC Reviewed by the Medical School Conflict of Interest Board

Project Information

Title: STTR Ph I A1 Pongmala/Haus: Development of elastic standing-enhanced dynamic standing desk (ESEDESK) in Parkinson's disease

U-M Project ID: 24-PAF06523

Direct Sponsor: Tulip Make Me Move Desk, LLC

Prime Sponsor: National Institutes of Health

Principal Investigator/Department: Fay Pongmala, Radiology

Project Duration: One (1) Year

Funding Support: \$162,113

Purpose: The purpose of this project is to test the hypothesis that use of the ESEDESK can further improve on the clinically relevant motor disability, functional balance, and fear of falling benefits observed with the DSK.

University Employee; University Title; Relationship with Tulip Make Me Move Desk, LLC

- Nicolaas Bohnen; Professor, Radiology; Partial Owner