

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 'Rebecca Cunningham', written in a cursive style.

Rebecca Cunningham
Vice President for Research

September 2021

Attachment A

Project #1

STTR Phase I Subcontract 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: 22-PAF01152
Direct Sponsor: AngioInsight, Inc.	Prime Sponsor: National Science Foundation
Principal Investigator/Department: Krishna Garikipati, Mechanical Engineering	
Project Duration: One (1) Year	Funding Support: \$153,599
Purpose: The purpose of this project is to develop and calibrate a computational reduced order model to calculate fractional flow reserve (FFR), a functional metric of coronary artery disease. The model will be developed using a large dataset of in-silico data and tested using clinical angiographic data and invasive measurements of FFR.	
<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 #2

STTR Phase II Subcontract Agreement between the University and ATGC, Inc. Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: Novel methods to improve nuclease mediated homologous recombination - STTR Phase II Resub	U-M Project ID: 22-PAF01017
Direct Sponsor: ATGC, Inc.	Prime Sponsor: National Institutes of Health
Principal Investigator/Department: Jifeng Zhang, Internal Medicine-Cardiology	
Project Duration: Two (2) Years	Funding Support: \$800,000
Purpose: The purpose of this project is to enhance the safety and efficacy of gene editing, propelling novel mi-Cas9 tools closer to an emerging multi-billion-dollar market of research and therapeutics.	
<u>University Employee; University Title; Relationship with ATGC, Inc.</u> <ul style="list-style-type: none">• Yuqing Chen; Professor, Internal Medicine-Cardiovascular Medicine; Partial Owner• Jie Xu; Research Associate Professor, Internal Medicine-Cardiovascular Medicine; Partial Owner	

Project #3

**SBIR Phase I Subcontract Agreement between the University and ATGC, Inc.
Reviewed by the Medical School Conflict of Interest Board**

Project Information

Title: Knock-in Rabbits for the Manufacture of Chimeric Anti-thymocyte Globulin - SBIR Phase I Resub

U-M Project ID: 22-PAF01045

Direct Sponsor: ATGC, Inc.

Prime Sponsor: National Institutes of Health

Principal Investigator/Department: Dongshan Yang, Internal Medicine-Cardiology

Project Duration: One (1) Year

Funding Support: \$85,600

Purpose: The purpose of this project is to establish the feasibility of genetically engineering the rabbit immune system for the production of chimeric rabbit anti-thymocyte globulin (rATG) with human constant regions.

University Employee; University Title; Relationship with ATGC, Inc.

- Yuqing Chen; Professor, Internal Medicine-Cardiovascular Medicine; Partial Owner
- Jie Xu; Research Associate Professor, Internal Medicine-Cardiovascular Medicine; Partial Owner

Project #4

**Subcontract Agreement between the University and Courage Therapeutics, Inc.
Reviewed by the UMOR Conflict of Interest Review Committee**

Project Information

Title: Therapeutic Development of an MC3R Agonist Drug to Treat Anorexia Nervosa and Suicide Prevention in PTSD Patients

U-M Project ID: 22-PAF01390

Direct Sponsor: Courage Therapeutics, Inc.

Prime Sponsor: Department of Defense

Principal Investigator/Department: Roger Cone, Life Sciences Institute

Project Duration: Two (2) Years

Funding Support: \$925,889

Purpose: The purpose of this project is to develop melanocortin-3 receptor (MC3R) -specific agonist peptides for the treatment of anorexia nervosa as well as mitigation of the effects of post-traumatic stress disorder (PTSD).

University Employee; University Title; Relationship with Courage Therapeutics, Inc.

- Roger Cone; Vice Provost and Director of the Biosciences Initiative, Director of the Life Sciences Institute; Partial Owner

Project #5

STTR Phase I Subcontract Agreement between the University and GeneToBe, LLC Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: Development of miCas9 mediated gene editing therapies for cystic fibrosis - STTR Phase I	U-M Project ID: 22-PAF01011
Direct Sponsor: GeneToBe, LLC	Prime Sponsor: National Institutes of Health
Principal Investigator/Department: Jie Xu, Internal Medicine-Cardiology	
Project Duration: One (1) Year	Funding Support: \$100,000
Purpose: The purpose of this project is to develop a gene editing therapy strategy for cystic fibrosis.	
<u>University Employee; University Title; Relationship with GeneToBe, LLC</u>	
<ul style="list-style-type: none">• Yuqing Chen; Professor, Internal Medicine-Cardiovascular Medicine; Partial Owner	

Project #6

Research Agreement between the University and The Hope Foundation Reviewed by the Medical School Conflict of Interest Board	
<u>Project Information</u>	
Title: Hypnosis for Pain in Black Women with Advanced Breast Cancer	U-M Project ID: 21-PAF09009
Direct Sponsor: The Hope Foundation	
Principal Investigator/Department: Noel Arring, School of Nursing	
Project Duration: Two (2) Years	Funding Support: \$62,501
Purpose: The purpose of this project is to culturally tailor an effective in-person hypnosis for cancer-related pain intervention for Black advance breast cancer survivors in preparation for a phase III study.	
<u>University Employee; University Title; Relationship with The Hope Foundation</u>	
<ul style="list-style-type: none">• James Rae; Professor, Internal Medicine-Hematology/Oncology; Board of Directors Officer	

Project #7

**Subcontract Agreement between the University and Jacobs Engineering Group Inc.
Reviewed by the UMOR Conflict of Interest Review Committee**

Project Information

Title: Durable Anti-fog Coatings for Combat Eye Protection and Transparent Surfaces

U-M Project ID: 21-PAF02036

Direct Sponsor: Jacobs Engineering Group Inc.

Prime Sponsor: Department of Defense – Air Force

Principal Investigator/Department: Anish Tuteja, Materials Science and Engineering

Project Duration: Five (5) months

Funding Support: \$250,000

Purpose: The purpose of this project is to develop durable, transparent, anti-fog coatings for combat eye protection.

University Employee; University Title; Relationship with Jacobs Engineering Group Inc.

- Glen Daigger; Professor, Civil and Environmental Engineering; Partial Owner

Project #8

**Research Agreement between the University and NS Nanotech Inc.
Reviewed by the UMOR Conflict of Interest Review Committee**

Project Information

Title: Development of N-polar InGaN Nanowire Green and Red Micro-LEDs

U-M Project ID: 22-PAF01388

Direct Sponsor: NS Nanotech Inc.

Principal Investigator/Department: Zetian Mi, Electrical Engineering and Computer Science – Electrical and Computer Engineering (EECS-ECE) Division

Project Duration: Three (3) Months

Funding Support: \$250,000

Purpose: The purpose of this project is to investigate the design, epitaxy, fabrication, and performance of N-polar InGaN nanowire-based micro-LEDs operating in the deep visible (e.g., green and red) wavelengths.

University Employee; University Title; Relationship with NS Nanotech Inc.

- Zetian Mi; Professor, EECS-ECE Division; Partial Owner

Project #9

**Research Agreement between the University and Taza Aya LLC
Reviewed by the UMOR Conflict of Interest Review Committee**

Project Information

Title: Phage removal by a novel visor device

U-M Project IDs: 21-PAF09048 and 22-PAF01419

Direct Sponsor: Taza Aya LLC

Principal Investigator/Department: Alex Szczuka, Civil & Environmental Engineering

Project Duration: Three (3) Months, Eleven (11) Days

Funding Support: \$19,820

Purpose: The purpose of this project is to assess the capability of a plasma-based visor, designed for personal respiratory protection, to inactivate viruses.

University Employee; University Title; Relationship with Taza Aya LLC

- Herek Clack; Associate Professor, Civil & Environmental Engineering; Partial Owner
- Mike Drake; Senior Executive Director, Office of Advancement, College of Engineering; Partial Owner

Project #10

**SBIR Phase II Subcontract Agreement between the University and Therapeutics System Research Lab, Inc.
Reviewed by the UMOR Conflict of Interest Review Committee**

Project Information

Title: Development of synthetic high-density lipoproteins for treatment of sepsis

U-M Project ID: 21-PAF06432

Direct Sponsor: Therapeutics System Research Lab, Inc. (TSRL)

Prime Sponsor: National Institutes of Health-
National Institute of General Medical Sciences

Principal Investigator/Department: Anna Schwendeman, Pharmaceutical Sciences

Project Duration: Three (3) Years

Funding Support: \$897,902

Purpose: The purpose of this project is to perform the initial preclinical studies and develop the regulatory strategy towards filing of an Investigational New Drug (IND) application, and to initiate the clinical development for the optimized sHDL lead candidate (22A-DMPC) for the treatment and prevention of sepsis.

University Employee; University Title; Relationship with TSRL, Inc.

- Gordon Amidon; Professor, Pharmaceutical Sciences; Partial Owner
- Gregory Amidon; Emeritus Research Professor, Pharmaceutical Sciences; Paid Board of Directors Member

Project #11

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 Bohnen: Development of the Multifunctional Rehabilitation Standing Device for older adults with motoric cognitive risk syndrome

U-M Project ID: 21-PAF08405

Direct Sponsor: Tulip Make Me Move Desk, LLC

Prime Sponsor: National Institutes of Health

Principal Investigator/Department: Nicolaas Bohnen, Radiology

Project Duration: One (1) Year

Funding Support: \$168,650

Purpose: The purpose of this project is to develop and clinically test a multidirectional Multifunctional Rehabilitation Standing Device (MRSD) prototype.

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

- Nicolaas Bohnen; Professor, Radiology; Partial Owner