

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". The signature is fluid and cursive, with the first name "Arthur" and last name "Lupia" clearly distinguishable.

Arthur Lupia  
Interim Vice President for Research and Innovation

February 2025

**Attachment A**

**Project #1**

<b>Subcontract Agreement between the University and Applied Dynamics International, Inc. Reviewed by the UMOR Conflict of Interest Review Committee</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> MxD-23-02-01 Integrated Open Process Automation (OPA) Testbed	<b>U-M Project ID:</b> 25-PAF03959
<b>Direct Sponsor:</b> Applied Dynamics International, Inc.	<b>Prime Sponsor:</b> MxD USA
<b>Principal Investigator/Department:</b> Kira Barton, Robotics	
<b>Project Duration:</b> One (1) Year	<b>Funding Support:</b> \$50,000
<b>Purpose:</b> The purpose of this project is to integrate testbeds with a new testbed to enable process monitoring, anomaly detection, and predictive maintenance.	
<p style="text-align: center;"><b><u>University Employee; University Title; Relationship with Applied Dynamics International, Inc.</u></b></p> <ul style="list-style-type: none"> <li>● Michael Drake; Policy Advisor to Vice Provost/Dean, Office of Advancement, College of Engineering; Board of Directors Member</li> </ul>	

**Project #2**

<b>SBIR Phase I and II Subcontract Agreement between the University and Blue Arbor Technologies, Inc. Reviewed by the Medical School Conflict of Interest Board</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> Clinical Testing of an Advanced Neuroprosthetic Control System	<b>U-M Project ID:</b> 25-PAF04568
<b>Direct Sponsor:</b> Blue Arbor Technologies, Inc.	<b>Prime Sponsor:</b> National Institutes of Health
<b>Principal Investigator/Department:</b> Deanna Gates, Kinesiology	
<b>Project Duration:</b> Three (3) Years	<b>Funding Support:</b> \$1,331,417
<b>Purpose:</b> The purpose of this project is to perform in-lab and take-home testing of implantable devices for high fidelity prosthetic hand control.	
<p style="text-align: center;"><b><u>University Employee; University Title; Relationship with Blue Arbor Technologies, Inc.</u></b></p> <ul style="list-style-type: none"> <li>● Alex Vaskov; Research Fellow, Plastic Surgery; Partial Owner</li> <li>● Paul Cederna; Professor, Plastic Surgery; Partial Owner</li> <li>● Theodore Kung; Clinical Associate Professor, Surgery; Partial Owner</li> </ul>	

### Project #3

<b>Subcontract Agreement between the University and DASH Tech Integrated Circuits, Inc. Reviewed by the UMOR Conflict of Interest Review Committee</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> Configurable Optical Communications via Heterogenous-processing Optimized Node Low SWaP (COCHON-LS)	<b>U-M Project ID:</b> 25-PAF04111
<b>Direct Sponsor:</b> DASH Tech Integrated Circuits, Inc.	<b>Prime Sponsor:</b> Department of Defense, Department of the Air Force
<b>Principal Investigator/Department:</b> David Blaauw, Electrical Engineering and Computer Science – Electrical and Computer Engineering (EECS – ECE) Division	
<b>Project Duration:</b> One (1) Year, Eight (8) Months	<b>Funding Support:</b> \$270,000
<b>Purpose:</b> The purpose of this project is to support DASH Tech Integrated Circuits, Inc. with system analysis, lead preliminary architecture design, and finalize architecture design in the development of an initial RTL.	
<b><u>University Employee; University Title; Relationship with DASH Tech Integrated Circuits, Inc.</u></b> <ul style="list-style-type: none"><li>• David Blaauw; Professor, EECS – ECE Division; Partial Owner</li></ul>	

### Project #4

<b>STTR Phase II Subcontract Agreement between the University and Eleven Therapeutics Corporation Reviewed by the UMOR Conflict of Interest Review Committee</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> Development of negative allosteric modulators of the mu-opioid receptor for the management of opioid use disorder	<b>U-M Project ID:</b> 24-PAF01084
<b>Direct Sponsor:</b> Eleven Therapeutics Corporation	<b>Prime:</b> National Institutes of Health
<b>Principal Investigator/Department:</b> John Traynor, Pharmacology	
<b>Project Duration:</b> Two (2) Years	<b>Funding Support:</b> \$1,179,066
<b>Purpose:</b> The purpose of this project is to identify novel chemical entities to be developed into a drug for the management of opioid use disorder.	
<b><u>University Employee; University Title; Relationship with Eleven Therapeutics Corporation</u></b> <ul style="list-style-type: none"><li>• Andrew Alt; Associate Research Scientist, Life Sciences Institute; Partial Owner</li><li>• Jason Rech; Associate Research Scientist, Director, Vahlteich Medicinal Chemistry Core, Medicinal Chemistry; Partial Owner</li></ul>	

**Project #5**

**Third Amendment to an Other Sponsored Activity Agreement between the University and EVOQ Therapeutics, Inc.  
Reviewed by the UMOR Conflict of Interest Review Committee**

**Project Information**

**Title:** EVOQ General Service Agreement 3 - Amend 3

**U-M Project ID:** 25-PAF04046

**Direct Sponsor:** EVOQ Therapeutics, Inc.

**Principal Investigator/Department:** James Moon, Pharmaceutical Sciences

**Agreement Originally Approved by the Regents:** March 25, 2021

**First Amendment Approved by the Regents:** March 24, 2022

**Second Amendment Approved by the Regents:** May 18, 2023

**Current Project Duration:** Four (4) Years

**Additional Time:** Two (2) Years

**Current Funding Support:** \$1,500,000

**Additional Funding Support:** \$1,500,000

**Purpose:** The purpose of this amendment is to add additional time and funds so that Dr. Moon may continue to produce categories of nanodiscs, and characterize and evaluate them in mice for immunological outcomes.

**University Employee; University Title; Relationship with EVOQ Therapeutics, Inc.**

- James Moon; Professor, Pharmaceutical Sciences; Partial Owner
- Anna Schwendeman; Professor, Pharmaceutical Sciences; Partial Owner

**Project #6**

**SBIR Phase I Subcontract Agreement between the University and Greenmark Biomedical Inc.  
Reviewed by the UMOR Conflict of Interest Review Committee**

**Project Information**

**Title:** Improving Caries Diagnosis with Targeted Nanoparticle-Enhanced AI-Assisted Intraoral Imaging

**U-M Project ID:** 25-PAF00987

**Direct Sponsor:** Greenmark Biomedical Inc.

**Prime Sponsor:** National Institutes of Health

**Principal Investigator/Department:** Livia Tenuta, Cariology, Restorative Sciences and Endodontics

**Project Duration:** Six (6) Months

**Funding Support:** \$8,834

**Purpose:** The purpose of this project is to optimize intraoral camera parameters for LC fluorescence detectability and imaging, and develop and evaluate in vitro efficacy of an Artificial Intelligence model.

**University Employee; University Title; Relationship with Greenmark Biomedical Inc.**

- Joerg Lahann; Professor, Chemical Engineering; Board of Directors Member

**Project #7**

<b>STTR Phase I Subcontract Agreement between the University and Halexe Inc. Reviewed by the Medical School Conflict of Interest Board</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> Automated CO2 Controller for Enhanced Artificial Lung Function	<b>U-M Project ID:</b> 25-PAF04315
<b>Direct Sponsor:</b> Halexe Inc.	<b>Prime:</b> National Institutes of Health
<b>Principal Investigator/Department:</b> Yuliya Tipograf, Cardiac Surgery	
<b>Project Duration:</b> Two (2) Years	<b>Funding Support:</b> \$149,969
<b>Purpose:</b> The purpose of this project is to optimize a novel smart sweep gas controller (Aeolus) for commercialization through regulatory-compliant design and user interface development and validate the improved Aeolus in a 5-day ovine model of venovenous extracorporeal membrane oxygenation.	
<b><u>University Employee; University Title; Relationship with Halexe Inc.</u></b>	
<ul style="list-style-type: none"><li>• Alvaro Rojas-Pena; Associate Research Scientist, Transplant Surgery; Partial Owner</li></ul>	

**Project #8**

<b>SBIR Phase I Subcontract Agreement between the University and IRAI Technologies, LLC Reviewed by the Medical School Conflict of Interest Board</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> Development of a FLASH Dosimetry System Based on Ionizing Radiation Acoustic Imaging	<b>U-M Project ID:</b> 24-PAF03082
<b>Direct Sponsor:</b> IRAI Technologies, LLC	<b>Prime:</b> National Institutes of Health
<b>Principal Investigator/Department:</b> Wei Zhang, MM Biomedical Engineering	
<b>Project Duration:</b> One (1) Year	<b>Funding Support:</b> \$98,122
<b>Purpose:</b> The purpose of this project is to develop an ionizing radiation acoustic imaging based ultrafast dosimetry system.	
<b><u>University Employee; University Title; Relationship with IRAI Technologies, LLC</u></b>	
<ul style="list-style-type: none"><li>• Wei Zhang; Research Investigator, MM Biomedical Engineering; Partial Owner</li><li>• Xueding Wang; Professor, MM Biomedical Engineering; Partial Owner</li></ul>	

**Project #9**

**STTR Phase I Subcontract Agreement between the University and Lumanos Inc  
Reviewed by the Medical School Conflict of Interest Board**

**Project Information**

**Title:** Myocardial Ischemic Reperfusion Injury Protection thru Human Platelet 12-Lipoxygenase Inhibition

**U-M Project ID:** 25-PAF04659

**Direct Sponsor:** Lumanos Inc

**Prime Sponsor:** National Institutes of Health

**Principal Investigator/Department:** Michael Holinstat, Pharmacology

**Project Duration:** One (1) Year

**Funding Support:** \$142,393

**Purpose:** The purpose of this project is to assess pharmacokinetic/pharmacodynamic modeling (PK/PD) for Slug-001 compared to ML355.

**University Employee; University Title; Relationship with Lumanos Inc**

- Michael Holinstat; Professor, Pharmacology; Partial Owner

**Project #10**

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

**Project Information**

**Title:** Distributed Acoustic Sensing Data Mining for Subsea Exploration

**U-M Project ID:** 25-PAF02457

**Direct Sponsor:** Lumetec Inc.

**Principal Investigator/Department:** Zack Spica, Earth and Environmental Sciences

**Project Duration:** One (1) Year

**Funding Support:** \$15,000

**Purpose:** The purpose of this project is to optimize and refine the AI algorithms to enhance their ability to extract meaningful acoustic signals from terabytes of submarine fiber-optic data.

**University Employee; University Title; Relationship with Lumetec Inc.**

- Zack Spica; Assistant Professor, Earth and Environmental Sciences; Partial Owner

**Project #11**

**Third Amendment to Research Agreement between the University and ONL Therapeutics, Inc.  
Reviewed by the Medical School Conflict of Interest Board**

**Project Information**

**Title:** Feasibility of Fas inhibition in preventing photoreceptor cell death in inherited retinal degeneration

**U-M Project ID:** 25-PAF04616

**Direct Sponsor:** ONL Therapeutics, Inc.

**Principal Investigator/Department:** David Zacks, Ophthalmology and Visual Sciences

**Agreement Originally Approved by the Regents:** May 20, 2021

**First Amendment Approved by the Regents:** July 20, 2023

**Second Amendment Approved by the Regents:** March 28, 2024

**Current Project Duration:** Four (4) Years

**Current Funding Support:** \$1,166,953  
**Additional Funding Support:** \$183,610

**Purpose:** The purpose of this amendment is to add additional funds so Dr. Zacks may continue to test the potential for ONL Therapeutics, Inc.'s Fas inhibitors to protect photoreceptor cells in mouse models of inherited retinal degeneration.

**University Employee; University Title; Relationship with ONL Therapeutics, Inc.**

- David Zacks; Professor, Ophthalmology and Visual Sciences; Board of Directors Member



### Project #12

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

**Project Information**

**Title:** In-Home Multifunctional Rehabilitation Standing and Stepping Device for People with Parkinson's disease

**U-M Project ID:** 25-PAF04134

**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:** \$1,795,104

**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 and Postural Instability and Gait Difficulty features.

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

- 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:** Development of elastic standing-enhanced dynamic standing desk (ESEDESK) to manage metabolic risk in overweight office workers

**U-M Project ID:** 25-PAF04299

**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:** \$183,806

**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.

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

- Nicolaas Bohnen; Professor, Radiology; Partial Owner