

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 OVPR Conflict of Interest 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 OVPR Conflict of Interest 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 written in a cursive style with a large initial "A" and a stylized "L".

Arthur Lupia  
Interim Vice President for Research and Innovation

May 2025

**Attachment A**

**Project #1**

<b>STTR Phase I Subcontract Agreement between the University and Arbor Batteries, Inc. Reviewed by the OVPR Conflict of Interest Committee</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> High Energy Density Li-ion Batteries: Using 3-D Electrode Architectures to Enable Ultra-Thick Dry-Processed Electrodes	<b>U-M Project ID:</b> 25-PAF06022
<b>Direct Sponsor:</b> Arbor Batteries, Inc.	<b>Prime Sponsor:</b> Department of Energy
<b>Principal Investigator/Department:</b> Neil Dasgupta, Mechanical Engineering	
<b>Project Duration:</b> One (1) Year	<b>Funding Support:</b> \$62,000
<b>Purpose:</b> The purpose of this project is to develop and optimize a laser ablation process to 3-D structure the electrodes.	
<b><u>University Employee; University Title; Relationship with Arbor Batteries, Inc.</u></b>	
<ul style="list-style-type: none"> <li>● Neil Dasgupta; Associate Professor, Mechanical Engineering; Partial Owner</li> <li>● Jeff Sakamoto; Visiting Professor, Mechanical Engineering; Partial Owner</li> </ul>	

**Project #2**

<b>SBIR Phase I Subcontract Agreement between the University and Arborsense, Inc. Reviewed by the Medical School Conflict of Interest Board and the OVPR Conflict of Interest Committee</b>	
<b><u>Project Information</u></b>	
<b>Title:</b> A Portable device for point-of-need detection of Ketamine, Cocaine, and Fentanyl in sweat	<b>U-M Project ID:</b> 25-PAF04255
<b>Direct Sponsor:</b> Arborsense, Inc.	<b>Prime Sponsor:</b> National Institutes of Health
<b>Principal Investigator/Department:</b> Xudong Fan, Biomedical Engineering	
<b>Project Duration:</b> Six (6) Months	<b>Funding Support:</b> \$62,869
<b>Purpose:</b> The purpose of this project is to detect drugs of abuse in sweat.	
<b><u>University Employee; University Title; Relationship with Arborsense, Inc.</u></b>	
<ul style="list-style-type: none"> <li>● Xudong Fan; Professor, Biomedical Engineering; Partial Owner</li> <li>● Zhaohui Zhong; Associate Professor, Electrical Engineering and Computer Science – Electrical and Computer Engineering (EECS – ECE) Division; Partial Owner</li> <li>● Mark Ilgen; Professor, Psychiatry; Partial Owner</li> </ul>	

### Project #3

**STTR Phase II Subcontract Agreement between the University and Arcascope Inc.  
Reviewed by the Medical School Conflict of Interest Board and the OVPR Conflict of Interest Committee**

#### Project Information

**Title:** A personalized circadian intervention for reducing preterm birth risk

**U-M Project ID:** 25-PAF04992

**Direct Sponsor:** Arcascope Inc.

**Prime:** National Institutes of Health

**Principal Investigator/Department:** Louise O'Brien, Neurology

**Project Duration:** Two (2) Years

**Funding Support:** \$999,620

**Purpose:** The purpose of this project is to test the circadian synchronization therapy with light (CST-L) mobile application for both iOS and Android in a clinical trial to deliver CST-L to pregnant women and determine its usefulness in improving both gestational length and depressive symptoms in a cohort of pregnant individuals at high risk for such poor outcomes.

#### University Employee; University Title; Relationship with Arcascope Inc.

- Daniel Forger; Professor, Mathematics; Partial Owner
- Olivia Walch; Adjunct Research Investigator, Neurology; Partial Owner

### Project #4

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

#### Project Information

**Title:** Mitochondrial Modulation Therapy for Post-Cardiac Arrest Brain Injury

**U-M Project ID:** 25-PAF07098

**Direct Sponsor:** Mitovation, Inc.

**Prime Sponsor:** National Institutes of Health

**Principal Investigator/Department:** Thomas Sanderson, Emergency Medicine Research

**Project Duration:** Three (3) Years

**Funding Support:** \$943,100

**Purpose:** The purpose of this project is to develop near infrared light (NIR) therapy delivery solutions to optimize delivery to the adult brain, manufacture a Light Utilizing COX-inhibitory Device (LUCID) engineered for human use, and evaluate efficacy of LUCID in our large animal cardiac arrest model and conduct critical in vivo evaluation of safety to provide data to the FDA.

#### University Employee; University Title; Relationship with Mitovation, Inc.

- Thomas Sanderson; Associate Professor, Emergency Medicine Research; Partial Owner

**Project #5**

**SBIR 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:** SBIR Phase II A0 Pongmala: In-Home Multifunctional Rehabilitation Standing and Stepping Device for People with Parkinson's disease

**U-M Project ID:** 25-PAF06760

**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:** \$1,495,360

**Purpose:** The purpose of this project is to perform 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