Funding

My team has been funded through the Department of Defense for over 15 years on projects including the development of:

1. vertebrate cell-based and yeast-based diagnostic assays for air and water toxicant sensing,
2. encapsulation technology for increased environmental stability of vertebrate cells for biosensor applications,
3. hand-held biosensors for rapid diagnosis and study of neural disease and neurotoxins,
4. portable cell maintenance system,
5. mast cell sensor for bacterial detection,
6. high-throughput wound healing assay for drug screening, and
7. antibody-based infectious disease diagnostic.

DOD/STTR Phase II award (Huie-PI) $299,950 2019-2021
A18B-012-0128
U.S. Army Research Office (ARO)
Hybrid Nano-Bio Electronic Odor Detector
Role: Subcontractor

DOD/U.S. Army Phase I SBIR (Bruno-PI) $42,000 2019-2020
W81XWH-19-C-0114
U.S. Army Center for Environmental Health Research
Novel Fluorescence Lysosomal Yeast (FLY) Portable Biosensor for General Toxicity Testing
Role: Subcontractor

U.S. Army Contract (Bruno-PI) $52,250 2018-2020
U.S. Army Center for Environmental Health Research
Contract to examine additional cell lines in ECIS system for chemical toxicant detection
Role: Subcontractor

DOD/STTR Phase I award (Huie-PI) $45,000 2018-2019
A18B-012-0128
U.S. Army Research Office (ARO)
Hybrid Nano-Bio Electronic Odor Detector
Role: Subcontractor

DOD/U.S. Army Phase II SBIR (Butler-PI) $250,000 2014-2016
A122-090-0468
U.S. Army Corps of Engineers
Encapsulation Technology for Increased Environmental Stability of Vertebrate Cells
Role: Subcontractor

SUNY Health Now Grant (Travis-PI) $10,000 2014-2015
Development of Hand-held Biosensors for Rapid Diagnosis and Study of Neural Disease and Neurotoxins, represents collaboration between 5 SUNY institutions.
Role: Team member

DOD/U.S. Army Phase I SBIR (Butler-PI) $25,000 2013-2014
A122-090-0468
U.S. Army Corps of Engineers
Encapsulation Technology for Increased Environmental Stability of Vertebrate Cells
Role: Subcontractor

U.S. Army Contract (Curtis-PI) $77,147 2011-2012
U.S. Army Center for Environmental Health Research
ECIS Evaluation of Additional Vertebrate Cell Lines for Chemical Sensitivity, Temperature Tolerance, and Shelf Life

U.S. Army Contract (Curtis-PI) $85,026 2008-2010
U.S. Army Center for Environmental Health Research
Examination of Additional Cell Lines in ECIS System for Chemical Toxicant Detection

DOD/Army Phase II STTR (Curtis-PI) $750,000 2005-2007
A045-028-0194
U.S. Army Center for Environmental Health Research
Portable Cell Maintenance System

DOD/OSD Phase I SBIR (Curtis-PI) $100,000 2005
O043-H08-3058
Walter Reed Army Institute of Research
Dipstick Assay for Field Detection of Leishmania Parasites using Quantum Dots

DOD/Army Phase I SBIR (Curtis-PI) $70,000 2005
A043-071-1724
US Army Research Office
ECIS Wound Healing High-Throughput Assay

DOD/Army Phase II SBIR (Curtis-PI) $730,000 2004-2005
A032-3868
U.S. Army Center for Environmental Health Research
Respiratory Endothelial Cell Sensor for Real-Time Air Toxicity Monitoring

DOD/Army Phase I STTR (Curtis-PI) $98,953 2004
A045-028-0194
U.S. Army Center for Environmental Health Research
Portable Cell Maintenance System

DOD/Army Phase I SBIR (Curtis-PI) $120,000 2003
A032-3868-68271
U.S. Army Center for Environmental Health Research
Respiratory Endothelial Cell Sensor for Real-Time Air Toxicity Monitoring