

## Michigan Technology Tri-Corridor 2005 Compliant Pre-Proposals

Project ID	PD Name	Organization	Project Title
Category I - Basic Research Fund			
24	Haacke, Ewart	The MRI Institute for Biomedical Research	A National Center of Excellence for Magnetic Resonance Imaging
25	Sun, Yi	University of Michigan	Silencing SAG E3 ubiquitin ligase for radiosensitization of glioblastomas: Cancer target validation
26	Finley, Russell	Wayne State University	Tools for development of diagnostics, vaccines, and drug target discovery for pathogenic bacteria
29	Smith, Brian	Wayne State University	Development of a more biofidelic test dummy foot: A tool to reduce forefoot injuries in car crashes.
39	Rutherford, William	Western Michigan University	Center of Excellence for Simulation Research
44	Larson, Ronald	University of Michigan	Development of Viral RNA Purification Methods at the Microscale
49	Naik, Ratna	Wayne State University	Development of a Micro-Raman Probe for Real-time Cancer Detection
51	Chaudhary, Vipin	Wayne State University	MCALC: Michigan Center for Advanced Lifescience Computing
59	Maddipati, Krishnarao	Wayne State University	Anticancer Prodrug Development Program
60	Baker, James	The Regents of the University of Michigan	Synthetic Affinity Molecules (Affinimers) to Replace Antibodies
61	Norris, Theodore	The Regents of the University of Michigan	Personalized nanotechnology sensors for detecting and monitoring human infections in vivo
55	Tainsky, Michael	Wayne State University	Personalized Vaccines against Ovarian Cancer
64	Schuelke, Thomas	Fraunhofer USA	Functionalized carbon coatings for controlled cell attachment
71	Shayman, James	University of Michigan	Therapeutics for lysosomal storage disorders
73	Swanson, Scott	The Regents of The University of Michigan	Detecting Deception with Functional Magnetic Resonance Imaging
74	Ni, Jun	The Regents of the University of Michigan	Multiscale Medical Device Manufacturing
68	Rumbeiha, Wilson	Pathobiology and Diagnostic Investigation	Biosensors for rapid diagnosis of select agent toxins in food biosecurity
77	Abrams, Gary	Wayne State University	Michigan Vision Research Institute
80	Yan, Honggao	Michigan State University	Inhibition of HPPK, a new target for developing antibiotics
84	Kovari, Ladislau	Wayne State University	Protease Inhibitor Design against MDR HIV Variants
85	Cao, Brian	Van Andel Institute	A Michigan-based technology platform for antibody engineering and production
88	Hu, Jin	Michigan Molecular Institute	Dendrimer-Based Systems for Imaging and Cancer Therapy
89	Case, Brent	CMU Research Corporation	Expanding the National Center of Excellence in Nanotechnology Research
92	Hart, David	Wayne State University	Clustered Protein Databases with Applications
93	Panyam, Jayanth	Wayne State University	DUAL-AGENT NANOPARTICLES TO OVERCOME DRUG RESISTANCE
95	Omenn, Gilbert	Regents of the University of Michigan	Proteomics Alliance for Cancer Research
96	Sherman, David	The Regents of the University of Michigan	Michigan Molecular Target Screening Center
97	Everson, Richard	Karmanos Cancer Institute	Gene Expression Analysis of Fixed and Degraded Tissues
101	Mayer, Michael	University of Michigan	Diagnosis and Therapeutic Monitoring of Multiple Sclerosis by Screening for Ion Channel Activity
109	Lahann, Joerg	University of Michigan	Bio-catalytical copper coatings for biomedical applications
116	Ma, Peter	University of Michigan	"Animal Experiments" on Nano Fibers
119	Ratanatharathorn, Voravit	Barbara Ann Karmanos Cancer Institute at WSU	The Cell Graft Engineering for Allogeneic Stem Cell Transplantation

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120	Ayyagari, Radha	University of Michigan	Molecular diagnostic genotyping for patients with hereditary retinal and macular degenerations
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122	Yudelev, Mark	Wayne State University School of Medicine	Development of Image Guided Adaptive Neutron Radiation Therapy for Glioblastoma Multiforme
129	Clinthorne, Neal	The Regents of the University of Michigan	Center for Advanced Biomedical Imaging Technology
130	Auner, Gregory	Wayne State University	Microsystems for Medicine
133	Schwiebert, Loren	Wayne State University	Real-Time Sensor Driven Diagnostics for Biomedical Applications
134	DeHaven, James	Kalamazoo Valley Community College	Establishment of a High Throughput Screening Center
135	Muzik, Otto	Department of Pediatrics	Software tools for neuroimaging in epilepsy
150	States, David	University of Michigan	Proteomic Analysis of Genetically Diverse Samples
151	Wong, Henry	Henry Ford Health System	Biomarkers in mycosis fungoides
152	Schwartz, Ann	Wayne State University	Establishment of a High Throughput Genotyping Working Group for Population Health Studies
154	Hua, Jing	Wayne State University	Virtual Histology with Volumetric Computerized Tomography
157	Holmen, Sheri	Van Andel Research Institute	Use of RNAi to block viral infections
164	Stryker, Gabrielle	Oakland University	Creating a System of Sensor Arrays/Networks for Detecting Cancer-Related Antigens
165	Borhan, Babak	Michigan State University	Investigation of new biologically active metabolites from arachidonic acid
166	Jamil, Hasan	Wayne State University	Wayne State Computational Functional Genomics Laboratory
168	Hsieh, Li	Wayne State University	Investigation of Neural Mechanisms of Driving Safety & Speech Distraction Using fMRI & MEG Imaging
172	Smith, Milton	Michigan State University	Designing Materials for Tissue Engineering and Drug Delivery
188	Kaguni, Jon	Michigan State University	DNA replication and transcription proteins for targeted drug discovery
189	Rappolee, Daniel	Wayne State University Medical School	Stress-activated protein kinase predicts reproductive outcomes
190	Moon, Kee	Michigan Tech University	Ultra-sensitive acoustic biosensor based on fully single-crystal piezoelectric thin films
191	Bliznyuk, Valery	Western Michigan University	Bio-molecular recognition/sensing properties of polymer/nanotube composites
193	Zand, Ali	Kettering University	Design and Synthesis of MMP Inhibitors
199	Alocilja, Evangelyn	Michigan State University	Development of organic-silicon nano-composite biosensor

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Project ID	PD Name	Organization	Project Title
Category II - Applied Research Fund			
195	Becker, Timothy	Neural Intervention Technologies, Inc.	ALGEL-II and ALGEL-IIa as novel and superior treatment options for hemorrhagic stroke
156	Giannobile, William	University of Michigan	Regenerative Medicine: A New Adult Stem Cell Therapy to Accelerate Bone Growth to Dental Implants
182	Goodwin, Neal	ProNAi Therapeutics, Inc.	Development of DNAi, a new cancer therapeutic technology
186	Buxser, Stephen	PharmOptima	Screening for a New Mechanistic Class of Antibiotics Against Gram-Negative Bacteria
187	Hulce, Verne	Field Neurosciences Institute	Development and Evaluation of a Therapy for the Treatment of Malignant Brain Tumors
173	Wang, Le Yi	Wayne State University	Lung Sound Analysis for Pediatric Asthma Diagnosis and Anesthesia Management
174	Long, Philip	NephRx Corporation	Development of treatment for acute renal failure
175	Long, Philip	NephRx Corporation	Advancement of AMP-18 for treatment of Mucositis
177	Althaus, John	HandyLab	Bedside Detection of Sepsis, CAP and Disease Onset

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128	Cao, Brian	Van Andel Institute	Anti PAI-1 Fab Antibodies- Anticancer Applications
149	Mazumder, Jyoti	University of Michigan@ Ann Arbor	Implantable Lungs with three dimensional micro-channel network by laser micromachining
160	McCubbrey, David	Pixel Velocity Inc., Medical Imaging Systems Group	A Real-time SRI Ultrasound for Low-cost Diagnosis of Coronary Artery Disease
136	Webb, Craig	Van Andel Research Institute	Development of molecular-based diagnostics for predicting drug response in multiple myeloma
137	Stief, Eric	Wayne State University	Compound Synthesis Fund – Pilot Study
138	Zhang, Ming	The Regents of the University of Michigan	TNF-Alpha Modulator for Reduction of Tissue Damage from Radiation Exposure
131	Xu, Yong	Wayne State Univ.	Nanomechanical Parylene Piezoresistive Cantilevers for Biological Sensing
125	Shanley, Charles	Wayne State University School of Medicine	Congestive Heart Failure Monitoring Using an Improved Wireless Intraventricular Pressure Sensor
117	Messmann, Richard	Michigan State University Contract/Grant Admin	A Phase I Clinical Trials Infrastructure to Evaluate Regionally-Developed Anti-Cancer Agents.
115	Malone, Thomas	Artificial Cell Technologies, Inc.	Applied Research to Advance our Proprietary Artificial Red Blood Cell Technology Platform
100	Takayama, Shuichi	University of Michigan	PROTOTYPE DEVELOPMENT AND TESTING OF A MICROFLUIDIC EMBRYO CULTURE AND ANALYSIS SYSTEM
102	Serafin, Louis	Signal Medical Corporation	Ceramic on Ceramic Hip Articulation
98	Miller, Josef	Regents of the University of Michigan	Pharmaceutical interventions to eliminate deafness in the 21st century
94	Sunkara, Prasad	Molecular Therapeutics, Inc	MRX-1024 for preventing chemo-radiation induced oral mucositis in cancer patients
81	Loeb, Jeffrey	Wayne State University	Transitioning GlyTag LLC Technologies from the University to the Private Sector
79	Kaganove, Steve	Michigan Molecular Institute	Nano-structured Synthetic Oxygen Carriers for Resuscitation and Cell Culture Applications
70	Olson, David	PanCel Corporation	Development of a Bioartificial Pancreas for Treatment of Diabetes
66	Sobel, Jack	Wayne State University School of Medicine	Microfluidics PCR Diagnosis of fungal infection
67	Parnes, Marvin	The Regents of the University of Michigan	MUCI/ASSURED: Building University - Life Sciences Industry Relationships through Collaboration
57	Heinrikson, Robert	Proteos, Inc.	New Peptide Epitope Tags and Cognate Antibodies for Isolation and Structural Characterization of Membrane and Other Proteins
58	Satoh, Paul	Neogen Corporation	Rapid & Sensitive Chemiluminescent assay for coliforms & E.coli in water
63	Crockett, Elahe	Michigan State University	Large Scale Production of The Therapeutic Protein, SLPI, in Tobacco and Corn
6	Bix, Laura	Michigan State University	Applying Universal Design Concepts to Child Resistant Packaging
13	Baird, Jennifer	Accuri Instruments, Inc.	Innovative Affordable, Easy-to-Use, Personal Flow Cytometer for Life-Science Research
30	Islam, Mohammed	University of Michigan	Ultrahigh Resolution Optical Imaging for Neurosurgical and Nephrology Applications

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<b>Category IIIa: Commercialization Infrastructure</b>			
87	Riegger, Kurt	Ann Arbor-Ypsilanti SmartZone	Ann Arbor Gap Funding for Life Sciences
21	Kurek, Lisa	Biotechnology Business Consultants, LLC	Life Sciences SBIR/STTR and Commercialization Consulting Services Program
141	Dugener, Matt	West Michigan Science & Technology Initiative	Bio-Technology Commercialization Fund
142	Dugener, Matthew	West Michigan Science & Technology Initiative	Michigan SmartZone Life Sciences Pre-Seed Fund
143	Hickey, Thomas	Antares5 LLC	Commercialization Evaluation and Development Services for Michigan Life Sciences
171	Zahn, Todd	NexusTech Ventures	Michigan Technology in-licensing Development
198	Gager, Derek	Mirotech LLC	MTTC Relocation and Commercialization Portal
201	Zahn, Todd	NexusTech Ventures	Market Assessment Services
<b>Category IIIb: Commercialization Investment Program</b>			
202	Gadwood, Robert	zuSyn, Inc	New Therapeutic Leads Through Chemoselective Sugar Ligation (Correct Version)
203	Zahn, Todd	NexusTech Ventures	Hyperix
200	Sinha, Sarvajit	Jiva Systems, Inc.	Commercialization of Collaborative Product Development software for the Life Science Industry.
183	Henny, Geoffrey	Henny & Associates	Henny Associates Bioguardian Natural Defense System
178	Zimdars, David	Picotronix, Inc. d.b.a. Picometrix, Inc.	Terahertz Instrumentation for Pharmaceutical Process Analytical Technology
181	Svenson, Sonke	Dendritic NanoTechnologies Inc.	Development and Commercialization of a Dendrimer-Based Formulation of the Anticancer Drug Cisplatin
155	Marmarelli, Deborah	DCM Associates	Workforce skills development via eLearnng
144	Huang, Xiaodi	CastCon Tech	New Orthopaedic Devices
139	Cibelli, Jose	Gema, LLC	Reproductive Diagnostic Tool to Decrease the Risk of Multiple Pregnancies in Humans
104	Kubasiak, Lori	Dendritic NanoTechnologies Inc.	Dendrimer-Based siRNA Delivery Vehicles
106	Shaw, Jiajiu	Unitech Pharmaceuticals	Therapeutic Validation of Indoloazepines for Treatment of Autoimmune Diseases
82	Gaitas, Angelo	PicoCal	Nanoscale Thermal Metrology for Bio-Cellular Diagnostics and Nanocalorimetry
45	Bergstrom, Debora	Dendritic NanoTechnologies, Inc.	Commercial Development of Dendrimer-Based MRI Imaging Contrast Agents
15	Sparks, Douglas	Integrated Sensing Systems Inc	Commercializing a Life-Saving Drug Infusion Safety System