

Michigan Life Sciences Corridor Awards 2000-2003

Organization	Award Recipient	Project Topic	Amount Awarded	Award Year
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Research Grants

I. Individual Research Projects

The Regents of the University of Michigan	Gabriel Nunez	Characterization of Cancer Target in Lymphoma	\$629,408	2000/01
Kalamazoo College	Laura Lowe Furge	Metabolism of Anti-Carcinogenic Compounds	\$84,975	2000/01
University of Michigan	Robert Krasny	Structural Biology and Bioinformatics: Advanced Simulation of Biomolecular Structure and Dynamics	\$785,055	2000/01
Michigan State University	Lawrence Karl Olson	Human Pancreatic Stem Cells for Diabetes Treatment	\$448,609	2000/01
Michigan State University	Jim Geiger	Structural Biology: Structures of Physiologic Complexes of Blood Proteins	\$442,092	2000/01
Oakland University	Jill H. Zeilstra-Ryalls	Blood protein structure and synthesis	\$528,802	2000/01
Wayne State University School of Medicine	Hiranmoy Bhattacharjee	Mechanism of Eukaryotic Arsenic Transport and Resistance	\$581,386	2000/01
The Regents of the University of Michigan	Ari Gafni	Structural Alterations of Proteins in Aging and Disease	\$803,146	2000/01
Michigan State University	Babak Borhan	Chemistry: New Bioactive Metabolites from Arachidonic Acid	\$530,576	2000/01
Michigan State University	Jack Robert Harkema	Biomarkers of Air Pollution-Mediated Respiratory Disease	\$2,125,015	2000/01
University of Michigan	Richard B. Brown	Microsystems development: Electron-Relay Enabled Immunosensor	\$769,589	2000/01
University of Michigan Medical Center	Daniel T. Eitzman	Apolipoprotein A1 in Atherosclerotic Vascular Disease	\$909,829	2000/01
Michigan State University	Donna Wang	Molecular Genetics of Blood Pressure Regulations by Sensory Nerves	\$796,082	2000/01
The Regents of the University of Michigan	Michael F. Clarke	Identification of a Breast Cancer Initiating Cell	\$1,137,029	2000/01
The University of Michigan	Ronald W Holz	Cell motility targets	\$738,828	2000/01
University of Michigan	Li Ying	Hypothalamic Regulation of Pancreatic Secretion	\$442,326	2000/01

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University of Michigan	Jiayuh Lin	Development of a modified p53 gene for human gene therapy	\$838,056	2000/01
The University of Michigan	Lori L Isom	Neurobiology: Transgenic models of Sodium channel Beta Subunit interactions	\$676,382	2000/01
Wayne State University	June Kan-Mitchell	Mimic Peptides of human T cell epitopes as HIV vaccines	\$616,000	2000/01
Michigan State University	Robert Edward Maleczka	Chemistry: Bio-active Molecules via Catalytic Organometallics	\$266,210	2000/01
The Regents of the University of Michigan	Radha Ayyagari	Molecular Genetics of Atrophic Macular Degeneration	\$392,815	2000/01
Western Michigan University	Subra Muralidharan	Microsystems development: Nano- and Micro-array Centrifugal Field Bio-Synthesis and Separation	\$750,000	2000/01
Michigan State University	Gregory L. Baker	Tailoring Polyglycolides for Advanced Biomedical Applications	\$489,820	2000/01
University of Michigan	Ellen M. Zimmermann	Novel Strategy for Mucosal Vaccine Development	\$1,221,431	2000/01
Van Andel Research Institute	Michael D Weinrich	Cell Cycle Targets for Cancer Therapy	\$427,005	2000/01
Michigan State University	Jon Kaguni	DNA Replication Proteins for Targeted Drug Discovery for Anti-virals and Anti-bacterials	\$660,000	2000/01
Michigan Technological University	Chung-Jui Tsai	Forestry: Functional Genomics of Fast-Growing Transgenic Aspen Trees	\$2,013,729	2000/01
Michigan State University	Paul Cooper Bartlett	Foodborne Outbreak Early Detection System (FOEDS)	\$602,557	2000/01
Regents of the University of Michigan	John Nees	Laser Based X-Ray Source for High Resolution Mammography	\$965,317	2000/01
Michigan Molecular Institute	Steven N Kaganove	Nanotechnology: Nano-Scaled Dendrimer-Based Colorimetric Biosensors	\$1,024,996	2000/01
Michigan State University	Gregg A Howe	Applied Chemical Ecology for Pest Management Alternatives	\$1,026,318	2000/01
Wayne State University	Peng George Wang	Production of Carbohydrate-Related Enzymes and Products by Biotechnology	\$593,512	2000/01
Michigan State University	Giles Brenton	Oxygenation by Liquid Infusion in Medicine/Environment	\$1,711,116	2000/01

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Wayne State University	John SantaLucia, Jr.	Development of Software for Designing DNA Diagnostics	\$456,037	2000/01
University of Michigan	Milton David Gross	Nuclear Imaging of Met- and HGF/SF-expressing Tumors	\$657,450	2000/01
University of Michigan Health System	Bert N. La Du	Can Paraoxonase be Used to Treat Endotoxemia and Sepsis?	\$1,740,258	2000/01
University of Michigan	Erdogan Gulari	Microsystems development: Microarray for making DNA and RNA Biochips	\$790,262	2000/01
University of Michigan Medical School	Alnawaz Rehemtulla,	Development of a Rodent Model for Non-Invasive Imaging of Apoptosis	\$868,264	2000/01
University of Michigan Medical Center	James Shayman	Small Molecule Inhibitors for Lysosomal Storage Disorders	\$1,113,588	2000/01
Michigan State University	John E. Linz	Signaling Pathways in Control of Aflatoxin Biosynthesis	\$393,737	2000/01
The Regents of the University of Michigan	Daniel Goldman	A genetic screen for mutations affecting CNS development and regeneration	\$1,019,688	2002
The Regents of the University of Michigan	Bruce Carlson	Improving Muscle Power and Mobility of Elderly Men and Women	\$3,838,082	2002
University of Michigan Medical School	Gilbert Omenn	Proteomics Alliance for Cancer	\$3,126,588	2002
Van Andel Research Institute	George Vande Woude	Developing Met-directed strategies for imaging and treating metastatic prostate cancer	\$1,549,382	2002
Wayne State University	Gregory Auner	Microsystems development: Functionally Active Biocompatible Encapsulation (FABE)	\$2,651,826	2002
University of Michigan Medical Center	David Kurnit	Diagnosis of kidney disease in diabetes and hypertension by fluorescent RT-QPCR	\$933,655	2002
Wayne State University	Lucia Zamorano	Integration of Bioengineering and Biocomputing to Advance Michigan Computer-assisted Surgery Research	\$3,377,560	2003
Wayne State University	Michael Tainky	Assays for the Early Detection of Cancer	\$1,762,447	2003
University of Michigan	Craig Logsdon	Michigan Center for Pancreatic Cancer Molecular Diagnostics	\$2,360,216	2003
			\$52,667,051	

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II. Research Infrastructure Projects				
Michigan State University	Jack Priess	Michigan Center for Structural Biology	\$25,778,835	2000/01
University of Michigan	Philip C. Andrews	Michigan Proteome Consortium	\$12,958,027	2000/01
Van Andel Institute Grand Rapids Kent	Pam Swiatek	Michigan Animal Model Consortium	\$6,128,128	2000/01
University of Michigan	Brian Athey	Michigan Center for Biological Information	\$9,903,731	2000/01
Wayne State University	Mark R Hughes	Michigan Center for Genomic Technologies	\$6,478,620	2000/01
Michigan State University	William D. Atchison	Confocal Microscopy for Neuroscience and Toxicology	\$231,174	2000/01
Barbara Ann Karmanos Cancer Institute Wayne State University	Roy Baynes	The Michigan Cellular Therapy Center of Excellence	\$2,200,509	2000/01
Wayne State University School of Medicine	James Granneman	Michigan Diabetes Research Consortium	\$3,539,557	2002
Van Andel Research Institute	Goerge Vande Woude	Executive Director for Core Technology Alliance	\$250,000	2003
			\$67,468,581	
Company Investments				
Accumed Systems, Inc.	James Koert	MEMS Medical Devices: Catheter to Thermally Classify Atherosclerotic Plaque	\$1,291,218	2000/01
Intergraded Sensing Systems	Nader Najafi	MEMS Medical Devices: Micromachined Bio-Fluidic Devices for Drug Delivery	\$2,750,000	2000/01
Nephros Therapeutics, Inc.	Jacqueline Kurtz	Medical Devices: Clinical Trial of a Bioartificial Kidney	\$1,061,696	2000/01
Thromgen, Inc.	Alvin Schmaier	Drug Development: Thrombostatin - A Novel Anti-Platelet Agent	\$1,172,784	2000/01
NanoBio	Tarek A. Hamouda	Nanotechnology: Nanostructures that Prevent Food Borne Diseases	\$900,007	2000/01
Advanced Sensor Technologies	Hal Craig Cantor	MEMS Medical Devices: Bioreactor for Testing and Use of Biomimetic Matrices	\$779,867	2000/01
Rubicon Genomics, Inc.	Vladimir Makarov	Genomics: Development of OmniPlex Technology for Genomic Sequencing	\$1,891,242	2000/01
Molecular Therapeutics, Inc.	Brian Ross	Michigan Center for Biological Imaging (MCBI)	\$1,613,179	2000/01

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Advanced Sensor Technologies Farmington Hills Oakland	Hal Craig Cantor	MEMS Medical Devices: Single Locus Dual Potentio / Amperometric Neural Recording	\$498,335	2000/01
ApoLife, Inc.	Nalini Motwani.	Small Scale Production Services for Recombinant Proteins	\$792,000	2000/01
AvTech Laboratories, Inc.	Richard Johnson	Bioanalytical Mass Spectrometry Proposal	\$1,515,000	2000/01
ApoLife, Inc. Detroit	Nalini Motwani	Production and development of therapeutic antibodies	\$900,000	2002
Osteomics, Inc. Ann Arbor	Michael Long	Discovery of Therapeutic Targets for Bone Disease	\$3,310,777	2002
DNA Software, Inc. Ann Arbor	Donald Hicks	Development of simulation- based computer software environment for designing DNA-based microarrays	\$932,849	2002
Nephros Therapeutics/ University of Michigan	David Humes	Adult Kidney Stem Cell Therapy for Patients with End-Stage Renal Disease	\$1,432,230	2003
Michigan State University	James Tiedje	GeneScreen: A Low Cost and High Density DNA Biochip for Detecting up to 30,000 Microorganisms	\$1,137,449	2003
NanoCure/ The Regents of the University of Michigan	James Baker	Nanotechnology: Polymer Platforms for Drug Delivery	\$1,274,438	2003
Asterand/Wayne State University	Richard Everson	Streamlining Genomics for Personalized Medicine	\$2,354,979	2003
Neural Intervention Technologies/ University of Michigan	Daryl Kipke	Preparation of a Novel Neurovascular Treatment Material, ALGEL, for Clinical Studies	\$2,221,539	2003
DNA Software, Inc.	Mark Kielb	Commercializing Software for Microarray and Advanced PCR Assay Design	\$364,000	2003
GeneGo, Inc.	Tatiana Nikolskaya	A Platform Technology for In- Silico Reconstruction of Disease States.	\$1,653,964	2003
AmphiBiotics, LLC	Steve Sensoli	AmphiBiotics, LLC - Development of Antimicrobial drugs	\$200,000	2003
Kalexsyn	Jay Gadwood	Funding Support for a Contract Chemistry Company in Kalamazoo	\$192,200	2003

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Jasper Clinical R&D	Edward Antal	Establish an independent clinical research unit and consulting service, entitled: Jasper Clinical Research and Development	\$175,000	2003
Proteos	Robert Henrikson	Peptide-based drug discovery	\$200,000	2003
SpecStar	Nielsen	Request for working capital for accounts receivable and marketing services for building a customer base	\$200,000	2003
ADMETRx	Goodwin	Preclinical Profiling to Support Drug Discovery	\$200,000	2003
CeeTox	James McKim	Toxicology testing services and methods	\$200,000	2003
AureoGen Pharma	Ake Elhammer	Development of Engineered Organisms to Produce Cyclic Peptide-Based Drugs	\$200,000	2003
Trilithon Pharma, LLC	Steve Sensoli	Cardiovascular drug development	\$200,000	2003
dKb Technologies	Patricia Ruppel	dKb Technologies proposal for knowledgebase & informatics service company	\$56,000	2003
Molecular Imaging Research Inc.	Wilbur Leopold	Molecular Imaging Research, Inc., A Research Organization (CRO) Combining the Power of Molecular Imaging and Transgenics	\$200,000	2003
			\$31,870,753	
Entrepreneurship Infrastructure Projects				
BBC Ventures, LLC	Lisa Kurek	Life Science Commercialization Consulting Services	\$1,889,318	2000/01
Wayne State University	Fred Reinhart	WSU Technology Transfer Office Improvements	\$359,007	2000/01
Sloan Enterprises, LLC	Richard Sloan	Developing & Launching Technology-Based Life Sciences Ventures	\$842,992	2000/01
Michigan State University	Bradley Shaw	Michigan Life Sciences Universities Commercialization Initiative	\$4,738,795	2000/01
Michigan Biosciences Industry Association	Michael Witt	Michigan Life Science Human Resource Solution	\$1,816,862	2002
The Regents of The University of Michigan	Marvin Parnes	Michigan Universities Commercialization Initiative Enrichment	\$959,706	2002
Michigan State University	Loraine Hudson	Rational Siting / Push-Pull Accelerator	\$1,199,980	2003

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\$11,806,660

Venture Capital Limited Partnerships

TGap Ventures	Peter Farner	TGap Ventures	\$1,550,000	2002
Arboretum Ventures	Jan Garfinkle	Arboretum Ventures Life Science Seed Fund: Bringing Life to Science	\$1,550,000	2002
Apjohn Group LLC	Mina Sooch	Early Stage Biopharmaceuticals Accelerator Fund	\$1,529,441	2002
Seneca Partners GP, LLC	Rajesh Kothari	Seneca Health Partners LP I - a healthcare venture capital fund	\$1,500,000	2003

\$6,129,441