



2009

New York Mission Investment

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Active Research Grants*	\$10,727,624
Local Community Grants	\$498,000
NICU Family Support Program	\$170,225
Educational Programs and Collaborative Projects	\$840,629
Advocacy Initiatives	\$103,500
TOTAL DOLLARS INVESTED IN MISSION PROGRAMS IN NEW YORK IN 2009:	\$12,339,978

* All research grant dollars reflect investment *active* in 2009, which may straddle multiple calendar years. All other investments are strictly for 2009.

The entire March of Dimes research portfolio active in 2009 nationally and internationally totals \$99,387,820.

Please contact Nelson Andino, State Director of Program Services at nandino@marchofdimes.com if you have any questions. Thank you!

2009 National Research Grants in New York

Grantee	Goal	Amount
University at Albany Christine K. Wagner, PhD Department of Psychology Department of Biology	Improve understanding of the role that both natural progesterone and contraceptive progestins may play in brain development in individuals with mental retardation and also help identify "safe" forms of contraception during lactation.	\$269,665
Wadsworth Center, NY State Department of Health Suny Albany Steven D. Hanes, PhD Laboratory of Developmental Genetics - Department of Biomedical Sciences	Understand an important developmental pathway that affects HOX functioning for insight into the causes of birth defects.	\$260,856
Albert Einstein College of Medicine U. Thomas Meier, PhD Department of Anatomy and Structural Biology	Improve understanding of how the endometrium prepares for attachment of a fertilized egg, with possible relevance to improving treatment for infertility. Some common, current treatments often result in twins, triplets or more, with consequent prematurity.	\$285,882
Albert Einstein College of Medicine Libor Velisek, MD, PhD Department of Neurology Department of Neuroscience	Develop treatments to prevent or control infantile spasms.	\$270,000
State University of New York University at Buffalo Glenna C.L. Bett, PhD Department of Gynecology-Obstetrics, Physiology and Biophysics	To characterize cellular changes in potassium ion channel activity in uterine muscle that are associated with muscular relaxation or with labor, as a basis for devising medical treatment to delay or prevent preterm delivery.	\$279,961
Cold Spring Harbor Laboratory David J. Stewart, PhD Meetings and Courses Program	2008 Cold Spring Harbor Laboratory Conference on Germ Cells.	\$3,500
Cornell University Paula Elaine Cohen, PhD Department of Biomedical Sciences	Understand the causes of errors of chromosome number.	\$225,094

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Cornell University Maria Jesus Garcia-Garcia, PhD Department of Molecular Biology and Genetics	Understand the causes of early miscarriage.	\$150,000
Columbia University College of Physicians & Surgeons Jonathan Matthew Barasch, MD, PhD Department of Medicine	Prevent kidney failure and other complications in premature infants.	\$229,968
Columbia University Tulle Inger Hazelrigg, PhD Department of Biological Sciences	Improve understanding of the roles of an important gene family in early embryonic development.	\$294,000
Columbia University Songtao Jia, PhD Department of Biological Sciences	To identify the mechanisms by which a family of proteins (SET domain) contribute to regulation of chromatin structure and function.	\$150,000
Columbia University College of Physicians & Surgeons Gerard Karsenty, MD, PhD Department of Genetics & Development	Develop new treatment for osteoporosis pseudoglioma and other disorders characterized by low bone mass.	\$341,922
Columbia University College of Physicians & Surgeons Yinghui Mao, PhD Department of Pathology and Cell Biology	Develop drug treatment for MVA and improve understanding of the causes of errors in cell division.	\$150,000
Columbia University College of Physicians & Surgeons John H. Martin, PhD Department of Neuroscience	Develop treatment to interrupt this cascade in the early months of life, preventing or reducing the severity of hemiplegic cerebral palsy, which affects 1 in 1,300 births.	\$271,591
Columbia University Medical Center Benjamin Tycko, MD, PhD Institute for Cancer Genetics	Develop treatment to prevent IUGR or improve growth of affected fetuses and prevent its consequences, sometimes including chronic lung disease, brain bleeds and necrotizing enterocolitis.	\$238,651
Columbia University Medical Center Maria Karayiorgou, MD Department of Psychiatry Department of Genetics & Development	To understand the molecular basis of cognitive deficits and psychiatric problems caused by chromosome 22q11 deletion syndrome.	\$279,875
Columbia University Medical Center Richard Steven Mann, PhD Department of Biochemistry and Molecular Biophysics Center for Neurobiology and Behavior	Improve understanding of the causes of limb defects, as a step toward learning how to prevent them.	\$267,300

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Mount Sinai School of Medicine Chenleng Cai, PhD Center for Molecular Cardiology & Department of Molecular, Cell and Developmental Biology	Improve understanding of the causes of congenital heart defects, which affect about 1 percent of infants, as a basis for eventually developing new ways to prevent or treat them.	\$150,000
Mount Sinai School of Medicine Bruce David Gelb, MD Department of Pediatrics Department of Human Genetics	Improve diagnosis and treatment of Noonan and LEOPARD syndromes and heart defects in general.	\$285,400
Mount Sinai School of Medicine Robert S. Krauss, PhD Department of Molecular, Cell & Developmental Biology	To clarify the role of a gene (Cdo) in embryonic brain development and determine how mutations in this gene contribute to holoprosencephaly, a failure of the embryonic brain to divide completely into hemispheres.	\$279,207
Mount Sinai School of Medicine Kirsten Sadler Edepli, PhD Department of Molecular, Cell and Developmental Biology Division of Liver Diseases	Prevent and treat liver abnormalities.	\$150,000
Mount Sinai School of Medicine Sergei Y. Sokol, Ph.D. Department of Molecular, Cell and Developmental Biology	Prevent birth defects, such as holoprosencephaly (a severe brain defect), that may be caused by misregulation of this signaling pathway.	\$289,452
New York University Skirball Developmental Genetics E. Jane Albert Hubbard, PhD Department of Pathology	Improve understanding of the genetic basis of infertility and clarify how genetic errors in gonadal development may lead to birth defects and pregnancy losses.	\$185,422
New York University Medical Center School of Medicine Edward Y. Skolnik, MD Skirball Institute	Develop treatment for inherited muscle diseases.	\$164,450
New York University School of Medicine Erika A. Bach, PhD Department of Pharmacology	Diagnose and treat birth defects caused by errors in this pathway.	\$150,000
New York University School of Medicine Gregory David, PhD Department of Pharmacology	Prevent errors in chromosome number and arrangement.	\$150,000
New York University School of Medicine Brian David Dynlacht, PhD Department of Pharmacology	To understand the role of several proteins in the assembly of cilia.	\$308,880
New York University School of Medicine Cancer Institute Stefan Feske, MD Department of Pathology	Develop drug treatment to regulate calcium channel function in the immune system, with possible relevance to SCID, autoimmune disorders, and prevention of graft-vs.-host disease in transplant recipients.	\$239,172

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<p>New York University School of Medicine Hyung Don Ryoo, PhD Department of Cell Biology</p>	<p>To determine whether cells that are dying by apoptosis (programmed cell death).</p>	<p>\$150,000</p>
<p>New York University School of Medicine Skirball Institute of Biomolecular Medicine Jessica Esther Treisman, PhD Kimmel Center for Biology and Medicine Department of Cell Biology</p>	<p>Identify and learn the origins of other birth defects caused by disruptions of cell signaling due to faulty fatty acid modifications.</p>	<p>\$350,766</p>
<p>New York University School of Medicine Skirball Institute of Biomolecular Medicine Deborah Yelon, PhD Developmental Genetics Program</p>	<p>To investigate the role of a gene (frv) in transforming the primitive embryo.</p>	<p>\$264,000</p>
<p>Sloan-Kettering Institute for Cancer Research Memorial Sloan Kettering Cancer Center Song-Hai Shi, PhD Department of Developmental Biology</p>	<p>Develop new treatments for neurological disorders.</p>	<p>\$150,000</p>
<p>Teachers College - Columbia University Jeanne Brooks-Gunn, PhD National Center for Children and Families</p>	<p>To evaluate the long-term effects of early intervention and parenting behaviors.</p>	<p>\$237,538</p>
<p>Weill Cornell Medical College Anna Di Gregorio, PhD Department of Cell and Developmental Biology</p>	<p>Understand the causes of birth defects related to faulty notochord development.</p>	<p>\$263,569</p>
<p>Weill Cornell Medical College Y. Amy Lam, Ph.D. Department of Biochemistry</p>	<p>To study the interaction between two components (ubiquitins and proteasomes) of cells' mechanism for disposal of proteins that are no longer needed.</p>	<p>\$150,000</p>
<p>Weill Cornell Medical College Licia Selleri, MD, PhD Department of Cell & Developmental Biology</p>	<p>Improve understanding of the causes of cleft lip/palate and other craniofacial defects, as a step toward learning to prevent them.</p>	<p>\$307,272</p>
<p>Weill Cornell Medical College Jeremy S. Dittman, MD, PhD Department of Biochemistry</p>	<p>Molecular dynamics of complexin and the regulation of synaptic function.</p>	<p>\$150,000</p>
<p>Weill Cornell Medical College Samie Jaffrey, MD, PhD Department of Pharmacology</p>	<p>To elucidate molecular mechanisms that shape the dendritic spines by which brain nerve cells receive signals from other cells.</p>	<p>\$238,053</p>

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Weill Cornell Medical College Anne Moscona, MD Departments of Pediatrics and Microbiology and Immunology	Develop anti-viral drug treatment that is safe for infants.	\$297,011
University of Rochester Michael Adam O'Reilly, PhD Department of Pediatrics	Prevent lung damage in premature babies treated with supplemental oxygen.	\$246,157
University of Rochester Medical Center Amy Elizabeth Kiernan, PhD Department of Ophthalmology	Prevent and treat eye defects.	\$150,000
SUNY Upstate Medical University Jeffrey D. Amack, PhD Department of Cellular and Developmental Biology	Role of cytoskeletal dynamics in regulating heart asymmetry.	\$150,000
Syracuse University Michael S. Cosgrove, PhD Department of Biology	Develop new drug treatments for childhood leukemias and MLL-related birth defects.	\$150,000
Syracuse University Beth A. Prieve, PhD Department of Communication Sciences and Disorders	Identify best physiological diagnostic testing procedures for infants with hearing loss at 6 months and younger, and find predictors of late-onset hearing loss.	\$247,346
Rensselaer Polytechnic Institute Russell James Ferland, PhD Department of Biology	The functional role of the Joubert Syndrome Causing Gene, AHI1, in brain development.	\$150,000
Rensselaer Polytechnic Institute Andrea Page-McCaw, PhD Department of Biology	Develop new treatments for cleft palate, which often requires multiple surgeries.	\$150,000

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