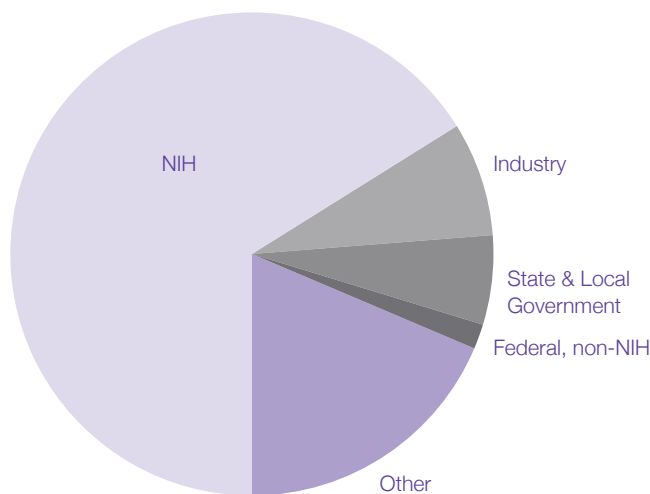


# Research Funding

*New grants of over \$100,000 awarded to NYU Langone researchers during 2007 and the first half of 2008*

## Research Funding\*

<b>\$121,835,760</b>	NIH
<b>\$14,102,906</b>	Federal, non-NIH
<b>\$10,948,614</b>	Industry
<b>\$2,884,975</b>	State & Local Government
<b>\$34,195,486</b>	Other



## Vital Statistics\*

Research Faculty	365**
New Research Faculty 07-08	28
Endowed Professorships	26
Total U.S. Patents	508
New U.S. Patents	46
No. of Publications	2,390
Success rate for grant applications	30.6 percent of NIH applications funded***

\* Based on data for calendar year 2007

\*\* At least 50 percent effort devoted to research

\*\*\* compared to 22.5 percent success rate for all medical schools

## FEDERAL 2007

- Aberg, Judith** *New York University HIV/AIDS Clinical Trial Unit* NIH \$9,741,549
- Abikoff, Howard B.** *Home-Based Parent Training in ADHD Preschoolers* NIH \$3,456,380
- Adams, Sylvia** *Augmenting Cancer Vaccine Therapy with TLR9 agonists* NIH \$690,940
- Aifantis, Ioannis** *Hedgehog Signaling as a Novel Regulator of Hematopoiesis* NIH \$422,604
- Aifantis, Ioannis** *preTCR as an Inducer of Cell Survival and Transformation* NIH \$633,584
- Baker, Robert** *Eye Movement: Physiological Organization* NIH \$2,116,979
- Barr, William B.** *Post Doc: Test Biases Limiting Preoperative Evaluation of Hispanic Immigrants with Epilepsy* AHRQ \$146,508
- Bar-Sagi, Dafna** *Positive and Negative Regulation of RTK-Ras Signaling* NIH \$1,286,775
- Bar-Sagi, Dafna** *Mechanisms of Signal Transduction by RAS Proteins* NIH \$946,187
- Basilico, Claudio** *Regulation of Bone Development by FGF Signaling* NIH \$1,185,334
- Belasco, Joel G.** *Mechanisms of Gene Regulation by MicroRNAs* NIH \$1,151,609
- Bender, Heidi A.** *Test Biases Limiting Preoperative Evaluation of Hispanic Immigrants with Epilepsy* NIH \$146,508
- Brook, Judith S.** *Tobacco Use Among Minority Youth: A Longitudinal Study* NIH \$2,645,072
- Bystryn, Jean C.** *Phase II Randomized Trial of IVG with or without Cyclophosphamide in Pemphigus* FDA \$1,003,822
- Bystryn, Jean-Claude** *Phase II Randomized Trial of IVG With or Without Cyclophosphamide in Pemphigus* NIH \$1,003,722
- Bystryn, Jean-Claude** *Serum CYT-MAA as an Early Marker of Response to Therapy in Resected Melanoma* NIH \$276,378
- Carlton, Jane M.** *Promotion of Plasmodium Research and Training in India* NIH \$667,500
- Chen, Donald S.** *P.falciparum var genes in Urban Malaria & Severe Malaria* NIH \$119,772

Choi, Jennifer H. *APP Metabolism in Transgenic Down Syndrome Mouse Models* NIH \$122,916

Costa, Max *Carcinogenesis of Nickel and Epigenetic Control* NIH \$1,796,219

Cowan, Nicholas *Inhibition of the Tubulin Folding Pathway as a Novel Therapy for Cancer* NIH \$958,817

Dai, Wei *PLK3 in the DNA Damage Checkpoint and Tumor Suppression* NIH \$540,979

Dai, Wei *BUBR1 in the Spindle Checkpoint and Tumor Suppression* NIH \$102,626

Darwin, Katerina H. *Virulence Regulation by the Mycobacterium Tuberculosis Proteasome* NIH \$1,906,250

Darwin, Katerina H. *Mtb Proteasome-Associated Factors and Virulence* NIH \$422,500

Dasgupta, Ramanuj *A Novel Screen for Small Molecule Modulators of the Wnt/wingless Signaling pathway* DOD \$126,750

De Jong, Bouke C. *Genomic and Immunological Comparisons of M africanum and M tuberculosis* NIH \$359,487

Delisi, Lynn E. *World Congress of Psychiatric Genetics with Emphasis on Genes for Drug Abuse* NIH \$159,076

Demaria, Sandra *Local Radiation as an Adjuvant for Immunotherapy* NIH \$1,607,479

Dustin, Michael L. *Requirement for Sensitive T Cell Response to Antigen* NIH \$1,693,417

Dynlacht, Brian D. *Role of the pRB Family in Quiescence and Differentiation* NIH \$1,372,229

Dynlacht, Brian D. *The Role of Ubiquitination in Cell Cycle Exit and Cachexia* NIH \$372,200

Feig, Jonathan E. *Role and Regulation of CCR7 in Regression of Atherosclerotic Lesions* NIH \$183,888

Feske, Stefan *Characterization of Genes Responsible for Store-operated Ca<sup>2+</sup> Entry in T Cells* NIH \$1,521,480

Fishell, Gordon J. *Cell Fate Determination in the Cerebellum* NIH \$1,799,611

Fishman, David A. *Microvascular Perfusion Sonographic Imaging to Detect Early Stage Ovarian Cancer* NIH \$350,128

Fishman, Glenn I. *Connexin43 Regulation and Cardiovascular Function* NIH \$2,081,750

Franke, Thomas *Role of Akt Signaling in Learning & Synaptic Plasticity* NSF \$564,621

Gabbay, Vilma *The Neurobiology of Adolescent Depression* NIH \$836,800

Goldfrank, Lewis R. *Risk Management in the Healthcare Sector: What and Where are the Agents of Opportunity* DOD \$3,315,249

Gordon, Terry *Aquatic Toxicity of Waste Stream Nanoparticles* EPA \$399,828

Gourevitch, Marc N. *Research Training in Health Protection and Preparedness* NIH \$2,678,551

Gourevitch, Marc N. *Substance Abuse Research Education and Training (SARET)* NIH \$1,548,175

Gourevitch, Marc N. *Research Training in Health Protection and Preparedness* CDC \$2,678,551

Greenberg, Jeffrey D. *Prognostic Genetic Biomarkers in Rheumatoid Arthritis* NIH \$664,740

Grossman, Robert I. *Quantitative MRI and 1H-MRS in Traumatic Brain Injury* NIH \$2,886,617

Helpern, Joseph A. *Quantitative MRI of Iron Homeostasis, Atrophy and Tissue Structure in AD Brain* NIH \$2,469,656

Hioe, Catarina E. *HIV Env-Induced Synapse and Signaling* NIH \$465,010

Hochman, Judith S. *Occluded Artery Trial: Long Term Follow-Up* NIH \$2,964,913

Holz, George G. *Molecular Basis of Antidiabetogenic Hormone Action* NIH \$1,184,969

Huang, Xi *Role of Estrogen and Iron in Breast Cancer* NIH \$372,300

Hubbard, E Jane *Control of Onset of Meiosis in C. elegans* NIH \$649,782

Hubbard, Stevan R. *Structural Study of the Insulin Receptor Tyrosine Kinase* NIH \$1,481,399

Ichtchenko, Konstantin *Botulinum Neurotoxin Derivatives for Targeted Neuronal Delivery* NIH \$452,808

Ito, Kazuhiko *Real Time Modeling of Weather, Air Pollution, and Health Outcome Indicator in NYC* EPA \$494,551

Klein, Hannah L. *DNA Helicases in Recombination and Repair* NIH \$1,252,638

Kleinberg, David L. *Breast Cancer Chemoprevention by SOM230, an IGF-1 Action Inhibitor* US Army \$842,733

Landau, Nathaniel R. *Vpr Revisited* NIH \$1,694,063

Landau, Nathaniel R. *Identification of Trim5alpha Cofactors* NIH \$470,600

Landau, Nathaniel R. *Murine Model for HIV-1 Replication* NIH \$338,000

Lazar, Mariana *Anatomical Connectivity in the Autistic Brain* NIH \$169,166

Lee, Peng *Androgen Receptor Coactivator p44 in Breast Cancer* DOD \$126,750

Liu, Chuanju *Degradative COMP Fragments as a Biomarker of Arthritis* NIH \$637,740

Liu, Chuanju *Role and Regulation of ADAMTS-12 in the Cartilage Catabolism* NIH \$138,785

Llinas, Rodolfo R. *Neurobiology of Cerebellar-Brainstem Systems* NIH \$6,159,399

Lucas, Christopher P. *Prevention of Anxiety in High-Risk Pre-School Children* NIH \$761,813

Malaspina, Dolores *Jerusalem Perinatal Cohort Schizophrenia Study II* NIH \$2,685,649

Malaspina, Dolores *Olfactory and Social Function in Schizophrenia* NIH \$668,822

Nance, Jeremy F. *Mechanisms of Contact-Mediated Cell Polarization in the C. elegans Embryo* NIH \$1,439,616

Nelson, Peter Jacob *TNF-Alpha: an Immunologic Precipitant of Collapsing Glomerulopathy* NIH \$169,000

Neubert, Thomas A. *Triple Quadrupole (Q-Trap) Mass Spectrometer* NIH \$413,850

Novick, Richard P. *Molecular Genetics of Exotoxin Regulation in S aureus* NIH \$1,932,927

Pai, Vinay Manjunath *Dynamic 3He MRI of the Lungs* NIH \$465,114

- Parathath, Sajesh *The Role of ES-4 in the Hydrolysis of Cholesteryl Ester in Hepatic Cells* NIH \$147,750
- Phillips, Mark R. *Compartment Specific Signaling of Ras* NIH \$1,388,448
- Pinderhughes, Alicia D. *Latent TGF-beta Binding Protein in Mammary Development and Tumorigenesis* NIH \$122,916
- Regatte, Ravinder R. *Quantitative MRI for Early Diagnosis of Arthritis* NIH \$1,820,602
- Reibman, Joan *Diesel Exhaust Particles and Mucosal Immunity* NIH \$1,799,346
- Rey, Mariano J. *NYU Center for the Study of Asian American Health - Research Center of Excellence* NIH \$7,893,907
- Rey, Mariano J. *Center to Reduce HBV Disparities* NIH \$4,250,000
- Rice, Margaret E. *Electrochemical Analysis of Dopamine Release* NIH \$422,500
- Rom, William N. *Longitudinal Studies of HIV-Associated Bacterial Pneumonia* NIH \$3,978,959
- Rom, William N. *Translational Research Training in Environmental Medicine* NIH \$1,867,441
- Rosenbluth, Jack *Pathology of Dysmyelination and Demyelination* NIH \$999,797
- Rostagno, Agueda *Cerebrovascular Amyloidosis, Stroke, and Dementia* NIH \$1,852,448
- Ryoo, Hyung D. *Coordination of Apoptosis and Cell Proliferation in Drosophila* NIH \$1,482,177
- Salafia, Carolyn M. *Prenatal Risk Factors for Neuropsychiatric Disease* NIH \$175,066
- Salzer, James L. *Assembly of the Node of Ranvier* NIH \$1,852,357
- Schneider, Robert J. *Viral and Cellular Determinants of Hepatitis B Virus Pathogenesis* NIH \$2,111,251
- Sigurdsson, Einar M. *Immunotherapy for Pancreatic Amylin Aggregates in Diabetes* NIH \$464,750
- Skolnik, Edward Y. *Regulation and Function of Myotubularins* NIH \$1,524,281
- Skolnik, Edward Y. *The Role of the Calcium Activated Potassium Channel, KCa3.1, in the Pathogenesis* NIH \$465,209
- Smith, Susan *Mechanisms of Sister Telomere Cohesion and Resolution* NIH \$1,608,825
- Stokes, David L. *Electron Microscopy of P-Type Ion Pumps* NIH \$1,557,963
- Tracy, Kathlene *Mentorship for Alcohol Problems (MAP)* NIH \$917,719
- Tse, Doris B. *FACSria Flow Cytometer* NIH \$344,045
- Volgyi, Bela *Structure and Function of Retinal Ganglion Cell Gap Junctions* NIH \$1,566,677
- Wall, Stephen *Spanish and English Multimedia Intervention to Increase Organ and Tissue Donation* AHRQ \$529,541
- Wall, Stephen P. *Spanish and English Multimedia Interventon to Increase Organ and Tissue Donation* NIH \$529,541
- Wang, Da-Neng *Structural Studies of Sugar Transporters* NIH \$1,836,555
- Wisniewski, Thomas M. *Detection and Clearance of AD Amyloid Lesions* NIH \$1,562,563
- Wisniewski, Thomas M. *Immunization Approaches for Alzheimer's Disease* NIH \$253,281
- Xu, Rui-Ming *Structural Studies of Transcriptional Silencing* NIH \$1,712,096
- Yamasaki, Lili *Mouse Models for pRB Growth Control Via E2F/DP Action* NIH \$1,023,223
- Yelon, Deborah L. *Genetic Regulation of Cardiac Patterning in Zebrafish* NIH \$1,356,000
- NON-FEDERAL 2007**
- Aifantis, Ioannis *Modeling T Cell Acute Lymphoblastic Leukemia* G & P Foundation for Cancer Research \$\$132,482
- Axelrod, Deborah M. *AMBER-Arab American Breast Cancer Education and Referral Program.* Komen New York City \$135,317
- Bach, Erika *Mechanisms of Regulating Stem Cell Number in Vivo* Hirschl Charitable Trust \$175,000
- Bach, Erika *Using Drosophila to Elucidate the Role of the JAK/STAT Pathway in Growth Control and Development* March of Dimes \$150,000
- Bhardwaj, Nina *Randomized, Double-Blind, Placebo-Controlled Study of Topical Resiquimod as an Adjuvant for NY-ESO-1 Protein Vaccination in Patients with Tumors That Often Express NY-ESO-1* Cancer Research Institute, Inc. \$403,431
- Bhardwaj, Nina *RNA Transfection as a Means to Enhance Dendritic Cell Immunity Against Tumors* The Emerald Foundation \$100,000
- Borkowsky, William *NICHD Pediatric and Perinatal HIV Studies Network* Westat \$1,523,317
- Burden, Steven J. *The Role of SMN in Skeletal Muscle Development* Spinal Muscular Atrophy Foundation \$358,400
- Buyon, Jill P. *Preventive Intravenous Immune Globulin (IVIg) Therapy for Congenital Heart Block (PITCH)* Lupus Foundation of America, Inc. \$427,546
- Calzada, Esther J. *A Cultural Model of Mental Health Services for Immigrant AfroCaribbean Children* Johnson (Robert Wood) Foundation \$300,000
- Cho, Hearn J. *Type 1 MAGE mRNA-pulsed Dendritic Cell Vaccines for Multiple Myeloma* Multiple Myeloma Research Foundation \$100,000
- Convit, Antonio J. *The BODY project.* The Robert C. and Veronica Atkins Foundation \$100,000
- Cowin, Pamela *The Role of Gpr125 in Mammary Stem/Progenitor Cells* Komen (Susan G.) Breast Cancer Foundation \$135,000
- Darwin, Andrew J. *Mechanisms of Pseudomonas aeruginosa Tolerance to Secretin-induced Stress During Host Infection* Burroughs Wellcome Fund \$500,000
- Darwin, Andrew J. *Pseudomonas aeruginosa Tolerance to Secretin-Induced Stress* Cystic Fibrosis Foundation \$194,400
- David, Gregory *Heterochromatin Formation and Maintenance in Mammals* March of Dimes \$150,000
- D'Eustachio, Peter G. *The Human Pathways and Reactions Consortium* Cold Spring Harbor Laboratory \$154,937
- Di Rocco, Alessandro *The Parkinson's Disease Center of NYUMC* Edmond J. Safra Philanthropic Foundation \$944,000
- Dustin, Michael L. *Imaging Immune Cell Infiltration and Function in Brain Injury* Dana (Charles A.) Foundation, Inc. \$100,015
- Feske, Stefan *Characterization of the Role of Novel Protein Orai 1 in Store-Operated Calcium Entry and CRAC Channel Function in Primary Immunodeficiency* March of Dimes \$239,172
- Fishell, Gordon J. *Mouse models of Autism Using Genetic Manipulation of Cortical Interneurons* Simons Foundation Autism Research Initiative \$240,000
- Fisher, Edward A. *Pleiotropic Effects of Rosuvastatin on Plaque Gene Expression* AstraZeneca \$168,045
- Formenti, Silvia C. *Pre-Clinical Studies of Local Ionizing Radiation Therapy and 4-1BB-Mediated Co-stimulation* Bristol-Myers Squibb \$106,470
- Franke, Thomas *Evaluating Akt Tyrosine Phosphorylation as a Novel Marker for Therapeutic Resistance and Breast Cancer Prognosis* Komen (Susan G.) Breast Cancer Foundation \$177,572

Frevort-Clarkson, Ute *Cerebral Malaria: Immune Cell and Parasite Interactions* Dana (Charles A.) Foundation, Inc. \$200,000

Gan, Wenbiao *The Role of Microglial Activation in Synaptic Pathology* Fidelity Foundation/E. C. Johnson Fund \$243,122

Gan, Wenbiao *Postdoc: The Role of Microcirculation in the Regeneration of Spiral Cord Axons* NYS Spinal Cord Injury Research Board \$120,000

Gany, Francesca M. *Assessing Breast Cancer Clinical Trials for Immigrants (ABC CiTI)* Komen New York City \$150,000

Ghiso, Jorge A. *Interdisciplinary Approach to Drug Discovery* Mount Sinai School of Medicine \$358,174

Goldfrank, Lewis R. *DOD Pandemic Influenza* New York University \$270,400

Greenberg, Jeffrey D. *Pharmacogenomic and Proteomic Biomarkers of Rheumatoid Arthritis Therapeutics* Bristol-Myers Squibb \$219,765

Gutstein, David E. *Connexin43 in Coronary Development* American Heart Association \$198,000

Hubbard, Jane *Genome-scale High Content Phenotypic Analysis of Sterility in C. elegans* March of Dimes \$185,422

Kaufman, Horacio *Dysautonomia Research Laboratory* Dysautonomia Foundation \$290,403

Keller, Allen S. *Bellevue/NYU Program for Survivors of Torture* Robin Hood Foundation \$250,000

Keller, Allen S. *Bellevue/NYU Program for Survivors of Torture* Open Society Institute \$199,999

Kim, Daniel *Scientist Development Grant* American Heart Association \$260,000

Kleinberg, David L. *Breast Cancer Chemoprevention by SOM230, an IGF-1 Action Inhibitor* United States Army Medical Research and Materiel Command \$842,733

Kleinberg, David L. *Mammary Carcinogenesis: Growth Hormone and IGF-I* Novartis \$150,000

Krogsgaard, Michelle *A Role for "self" in T-cell Development and Recognition* Pew Charitable Trusts \$240,000

Krogsgaard, Michelle *Sensitivity of T-cell Recognition of Melanoma Antigens* Cancer Research Institute, Inc. \$200,000

Kuzniecky, Ruben I. *The Epilepsy Phenome Genome Project* UCSF Medical School \$4,262,728

Leech, Colin A. *Regulation of Nucleotide Binding to ATP-Sensitive Potassium Channels* American Diabetes Association, Inc. \$176,404

Littman, Dan R. *Predoc: Regulation of Th-POK Expression During T Cell Differentiation* Leukemia and Lymphoma Society \$150,000

Littman, Dan R. *Postdoc: Role of RORgamma in Th17 Differentiation, Infection and Autoimmune Disease* Cancer Research Institute, Inc. \$130,500

Littman, Dan R. *Factors That Control Th17 Cell Differentiation in Human and Role of Th17 Cells in HIV Infection* Cancer Research Institute, Inc. \$128,500

Llinas, Rodolfo *Methods and Systems for Diagnosing and Treating Thalamocortical Dysrhythmia and the Use of Octanol and Related Compounds to Treat Thalamocortical Dysrhythmias* NeuroResonance LLC \$8,825,220

Llinas, Rodolfo *Chip Project* Neurocontrol Systems, LLC \$900,000

Llinas, Rodolfo *Brain Machine Interface Systems* Neuro Interface, LLC \$420,000

Lucas, Christopher P. *"STEPS" (Screening Treatment, and Education to Prevent Suicide) Program to be Piloted in Rockland County Schools* New York State Office of Mental Health \$500,000

Ludvig, Nandor *New Method for Protein Sampling and Delivery in Brain* Lenox Laser \$369,890

Malaspina, Dolores *Circumscribed Prenatal Adversity in Critical Gestational Windows and Psychiatric Outcomes: A Unique Prospective Population Study* National Alliance for Research on Schizophrenia and Depression \$100,000

Matthews, Paul *Investigator Initiated Research Grant: Neuroprotection Following Modulation of Endogenous Abeta in Mice* Alzheimer's Association \$240,000

Mendelsohn, Alan L. *Use of Plain-Language, Pictogram-Based Medication Instruction Sheets to Improve Parental Understanding of Medication Instructions and Prevent Medication Errors in Children* Pfizer Pharmaceuticals \$130,000

Muggia, Franco M. *Sanofi-Aventis Hematology & Oncology Special Research Fellowship Program* Sanofi-Aventis \$150,000

Munger, John S. *Activation of TGFb1 and TGFb3 by RGD-binding Integrins* Hirschl Charitable Trust \$175,000

Nudler, Evgeny A. *Increasing Plants' Resistance to Adverse Environmental Conditions by Manipulating the RNA Thermisensor (HRS1)* Monsanto Company \$203,400

O'Neill, David W. *Active Immunotherapy for Brain Tumors Using Dendritic Cells Transfected with mRNA Amplified from Tumor Cells* Making Headway Foundation \$160,000

Orlow, Seth J. *Improved Therapies for Melanoma* Miguel and Jacklyn Bezos \$510,000

Pagano, Michele *Functional Genetic Approaches for the Identification of Novel Cell Cycle* Welfare Ministry of Italy \$191,683

Pass, Harvey I. *Mesothelioma Virtual Bank for Translational Research* University of Pittsburgh \$154,158

Pass, Harvey I. *A Breath Test for Lung Cancer* Menssana Research, Inc. \$129,773

Petit-Jacques, Jerome *Generation and Control of Motion Detection in the Mammalian Retina* Whitehall Foundation, Inc. \$225,000

Poles, Michael *Effect of HIV Infection of Soluble Mediators and Microbial Biota in the GI Tract* New York University \$242,574

Rapoport, David M. *Neurocognitive Profiler: High Efficiency Brain Behavior Integrated Assay* Advanced Brain Monitoring, CA \$139,886

Ren, Mindong *Genotype-phenotype Correlation and Genetic Modifiers in Barth syndrome* United Mitochondrial Disease Foundation \$149,470

Rigaud, Mona Clinton *HIV/AIDS initiative* Clinton (William J.) Presidential Foundation \$124,882

Rom, William N. *Early Detection Research Network (EDRN) MicroRNAs in Lung Cancer* Johns Hopkins University \$102,295

Rosenbluth, Jack *Analysis of a New Dysmyelinating Mutant* National Multiple Sclerosis Society \$290,235

Roth, David Brian *Postdoc: Defining Alternative Pathways for the Repair of RAG-induced DNA Breaks* Leukemia and Lymphoma Society \$150,000

Rudy, Bernardo *Molecular and Functional Maturation of GABAergic Interneurons in MeC* International Rett Syndrome Association \$100,000

Ryoo, Hyung *Signaling Cascades Activated by Incomplete Cell Death During Animal Development* March of Dimes \$150,000

Sadowski, Marcin *Peptide Mimetic Therapeutic Agents for Blocking the Apo E/AB Interaction* American Federation for Aging Research \$240,000

Salzer, James L. *Collaborative MS Research Center Award* National Multiple Sclerosis Society \$825,000

Sauthoff, Harald *Adenoviral Delivery of Transducible p53 for Cancer Treatment* Alliance for Cancer Gene Therapy \$499,995

- Shah, Nirav *Outpatient Cardiovascular Guidelines Applied in Practice (GAP) Study* Johnson (Robert Wood) Foundation \$300,000
- Shopsin, Bo *AGR Function and Staphylococcal Fitness in Cardiovascular Infection* American Heart Association \$526,000
- Sigurdsson, Einar M. *Clearance of Pathological Tau as Therapy for Alzheimer's Disease* Hirschl Charitable Trust \$175,000
- Skok Gibbs, Jane *Epigenetic Factors That Contribute to the Development of B-ALL* Elsa U. Pardee Foundation \$187,500
- Smith, Julia A. *Integrated Breast Cancer Care for Medically Undersized Multiethnic Women in NY* New York Community Trust \$200,000
- Stokes, David L. *Probing the Dynamics of Protein Integration into and Translocation across Membranes using Fluorescence Spectroscopy and Cryo-Electron Microscopy* Burroughs Wellcome Fund \$488,000
- Taouli, Bachir A. *Correlation Between Perfusion Metrics Measured With Contrast-Enhanced MRI and Tissue Oxygenation Measured With BOLD MRI with VEGF Receptor Expression in Hepatocellular Carcinoma* Radiological Society of North America \$151,000
- Torres-Vazquez, Jesus *Genetic Analysis of Angiogenic Vascular Development in the Embryonic Brain* American Heart Association \$260,000
- Trombetta, Eduardo S *Regulation of Cellular Immune Responses to Protein Antigens* American Cancer Society, Inc. \$720,000
- Turnbull, Daniel H. *Postdoc: Longitudinal Assessment of Spinal Cord Injury Repair by MRI* NYS Spinal Cord Injury Research Board \$120,000
- Turnbull, Daniel H. *Micro-MRI of Mouse Medulloblastoma Progression and Response to Therapy* Making Headway Foundation \$100,000
- Vlahos, Ioannis *NYU Dual Energy Collaboration with Berlex/Schering/Bayer* Bayer HealthCare Pharmaceuticals Inc. \$127,984
- Weiner, Howard Leslie *Sonic Hedgehog Mutations in Medulloblastoma* Making Headway Foundation \$100,000
- Wirgin, Isaac I. *Stock Structure of Winter Flounder Using Two Complementary Nuclear DNA Approaches* New York Sea Grant \$218,000
- Zeleniuch-Jacquot, Anne *Serum Epigenetic Markers and the Early Detection of Breast Cancer* Komen (Susan G.) Breast Cancer Foundation \$186,724
- FEDERAL 2008**
- Barash, Irina *Pre-clinical Testing of GSK3 Inhibitors in ADPKD* NIH \$180,474
- Bhardwaj, Nina *Modulating Immunity through Dendritic Cell Phagocytic Receptors* NIH \$1,694,791
- Bloomfield, Stewart Allen *Amacrine Cell Function in the Retina* NIH \$2,869,198
- Brotman, Laurie Miller *Preventing Conduct Problems in Poor Urban Preschoolers* NIH \$2,193,210
- Burden, Steven J. *Signaling by MuSK, a Component of the Agrin receptor* NIH \$2,011,627
- Buyon, Jill P. *Maternal Autoantibodies: Pathogenesis of Neonatal Lupus* NIH \$1,863,950
- Carr, Kenneth D. *CNS Mechanisms that Modulate Reward* NIH \$320,694
- Carroll, William L. *Cancer Center Support Grant* NIH \$13,217,286
- Castellanos, Francisco X. *Neural Substrates of Variability in Attention Deficit Hyperactivity Disorder (ADHD)* NIH \$1,718,575
- Chesler, Mitchell *Dynamics of pH Regulation in the Brain* NIH \$1,853,359
- Clark, Brian D. *Functional Roles of Kv1 Channels in Inhibitory Cortical Interneurons* NIH \$124,416
- Coetzee, William A. *Potassium Channels as Macromolecular Complexes* NIH \$2,939,449
- Cowin, Pamela *The Role of a Novel Orphan G-protein Coupled Receptor in Mammary Stem Cells* NIH \$419,278
- Cronstein, Bruce N. *Purinergic Regulation of Bone Metabolism* NIH \$1,864,316
- Dai, Wei *Molecular Mechanisms Underlying Chromosomal Instability and Aneuploidy* NIH \$1,470,840
- Darwin, Andrew J. *The Psp Response of Yersinia enterocolitica* NIH \$381,188
- Dasgupta, Ramanuj *Integration of RNAi, Proteomic and Chemical Genetic Approaches to Identify Specific Modulators of Wnt/ $\beta$ -catenin Signaling* NIH \$455,350
- Dustin, Michael L. *Inverted Two Photon Laser Scanning Microscope for Host Defense* NIH \$500,000
- Ernst, Joel D. *Initiation of the Immune Response to M. tuberculosis* NIH \$2,709,151
- Fitzgerald, Matthew B. *Optimizing Fitting of Bilateral Cochlear Implants* NIH \$180,000
- Gardner, Esther P. *Neural Mechanisms of Cutaneous Spatial Integration* NIH \$500,000
- Gordon, Terry *Role of particle agglomeration in nanoparticle toxicity* EPA \$1,199,927
- Gorny, Miroslaw K. *The Immunoglobulin Gene Usage for Anti-V3 Monoclonal Antibodies* NIH \$455,250
- Grossman, Robert I. *Quantitative MR Imaging and Proton Spectroscopy in MS* NIH \$3,450,548
- Hong, Kyonsoo *CRCNS: Activity-Dependent Growth Cone Guidance* NIH \$1,847,642
- Javitt, Daniel C. *Sensory Processing Dysfunction in Neuropsychiatric Illness* NIH \$1,324,850
- Karpowich, Nathan K. *Structural Biology of the Sodium-Calcium Exchanger* NIH \$153,822
- Kelly, Anne Marie Clare *Functional and Structural Connectivity in Cocaine Addiction* NIH \$263,163
- Kirsch, Thorsten *Regulation of Mineralization in Skeletal Tissues* NIH \$543,052
- Kirsch, Thorsten *Collagen-Annexin Interactions in Tissue Mineralization* NIH \$215,235
- Krasinski, Keith Ryan *White Title IV Program* HRSA \$975,124
- Kreibich, Gert *Short Term Research Training for Medical Students* NIH \$538,956
- Lang, Eric J. *Abnormal Olivocerebellar Synchrony: A Possible Cause of Alcohol Withdrawal Tremor* NIH \$438,107
- Lee, Joshua D. *Treatment Study Using Depot Naltrexone(3/6)NY/Bellevue Protocol Treatment Site* NIH \$1,827,289
- Lee, Vivian S. *Non-Contrast-Enhanced Peripheral MR Angiography* NIH \$3,908,324
- Mohr, Ian J. *Virus-host Interactions that Regulate Translation in Cells Infected With HSV-1* NIH \$2,118,541
- Nans, Andrea S. *Electron Tomography of Axo-Glial Junctions* NIH \$163,888
- Nolan, Anna *CD80 and CD86 Mediated Innate Immune Response in Sepsis* NIH \$795,690
- Nudler, Evgeny *Transcription Termination and its Regulation in E. coli* NIH \$2,530,531
- Ogedegbe, Gbenga Godwin *Multi-Site RCT for BP Control in HTN African Americans* NIH \$810,777
- Pintucci, Giuseppe *Proteolysis of HMW FGF-2 by Thrombin and its Cardiovascular Implications* NIH \$381,865
- Rey, Mariano J. *Project AsPIRE (Asian American Partnership in Research and Empowerment)* NIH \$3,210,814

Rice, Margaret E. *Electrochemical Analysis of Dopamine Release* NIH \$1,356,970

Sadowski, Martin J. *Targeting the apoE/ABeta Interaction as a Novel AD Therapy* NIH \$1,597,926

Schneider, Robert J. *Infectious Diseases and Basic Microbiological Mechanisms* NIH \$2,396,745

Sigurdsson, Einar M. *Immune Therapy and Imaging in Mouse and Primate Models of Alzheimer's Disease* NIH \$1,323,356

Skolnik, Edward Y. *New Signaling Pathways that Positively and Negatively Regulate CD4 T Cells Via Th* NIH \$868,667

Sun, Tung-Tien *Biochemistry of Urothelial Differentiation* NIH \$2,517,379

Treisman, Jessica E. *Lipid Modification of Secreted Signaling Proteins* NIH \$465,916

Turnbull, Daniel H. *Ultrasound and MR Imaging of Mouse Brain Development* NIH \$1,482,668

Waxman, Joshua S. *Elucidation of Molecular Networks Required to Limit Cardiac Cell Number* NIH \$180,000

Zabar, Sondra *Residency Training in Primary Care* HRSA \$136,007

#### NON-FEDERAL 2008

Abramson, Steven B. *Identification and Characterization of Drug Targets in OA Daiichi Pharmaceuticals* \$600,000

Aifantis, Ioannis *The SCF(FBW7) Ubiquitin Ligase Complex as a Tumor Suppressor in T Cell Leukemia* Leukemia and Lymphoma Society \$550,000

Aifantis, Ioannis *Molecular Regulation of CNS Involvement in Pediatric ALL* Alex's Lemonade Stand Foundation \$200,000

Bach, Erika *Elucidating the Molecular Mechanisms that Regulate Stem Cell Number In Vivo* American Cancer Society, Inc. \$720,000

Bar-Sagi, Dafna *The Role of Diet-induced Pancreatic Injury in Inflammation and Cancer* American Association for Cancer Research \$100,000

Blaser, Martin J. *NYU-L'Oréal Projects on Human Skin Microbiota* L'Oréal USA \$142,500

Castellanos, F. Xavier *High-Troughput Neuroimaging of Pediatric Neuropsychiatric Disorders* Stavros S. Niarchos Foundation \$375,000

Convit, Antonio *Banishing Obesity and Diabetes in Youth (BODY) Project* New York City Council \$350,000

Convit, Antonio J. *Banishing Obesity and Diabetes in Youth (BODY) Project* WellPoint Foundation \$250,000

D'Eustachio, Peter G. *Knowledge Extraction and Annotation in a Grid Based Bioinformatics Environment* University of Delaware \$331,700

Dustin, Michael L. *Study of Dynamic Immune System Using In-Vivo Imaging Technology* Osaka University Immunology Frontier Research \$150,000

Elbel, Brian *Hospital Quality Data: Understanding Decision Making in Vulnerable Populations* Johnson (Robert Wood) Foundation \$149,972

Ferris, Steven H. *A Double-Blinded, Placebo-Controlled, Randomized, Multicenter Study to Evaluate the Efficacy and Safety of Eighteen Months of Treatment With PF-04494700 (Rage Inhibitor)* University of California, San Diego \$205,017

Franke, Thomas *AKT Action in Neuropsychiatric Disorder* Mathers Charitable Foundation \$659,999

Frenkel, Krystyna F. *Effects of muira puama Extract on Fat and Muscle in Rats* Pennino Corporation \$540,000

Gardner, Lawrence B. *Erythroid Gene Regulation by Nonsense Mediated RNA Decay* New York Community Trust \$100,000

Hernando-Monge, Eva *Mechanisms of Mesenchymal Transformation and Leiomyosarcoma-Genesis* American Cancer Society, Inc. \$716,000

Hernando-Monge, Eva *Role of Altered MicroRNAs in Melanoma-Genesis and Progression* Elsa U. Pardee Foundation \$106,658

Krieger, Ana C. *Endothelial Cell Dysfunction in Sleep Apnea* Johnson (Robert Wood) Foundation \$416,560

Lafaille, Juan J. *Improving the Efficacy of Regulatory T Cells in Inflammatory Bowel Disease* Crohn's & Colitis Foundation of America \$429,000

Landau, Nathaniel *Identification of Host Protein Interactions with HIV Vpr/Vpx that Enhance Viral Pathogenesis* Cancer Research Institute, Inc. \$130,500

Nance, Jeremy F. *Analysis of Cell Contact-Mediated Polarization in the C. Elegans Embryo* American Cancer Society, Inc. \$138,000

Nussenzweig, Victor *Identification and Validation of Plasmodium Liver-Stage Drug Targets* Novartis \$180,000

Pagano, Michele *Investigating the Role of Fbx09 in Multiple Myeloma Development* Leukemia and Lymphoma Society \$165,000

Reinberg, Danny *Mechanism of Histone Methylation Function During Chromatin Transcription* Helen Hay Whitney Foundation \$139,500

Rifkin, Daniel B. *Inflammation and tumorigenesis in mice with TGF-B mutations* Morris (Philip) Companies, Inc. \$200,000

Rostagno-Ghisso, Agueda A. *Cerebral Amyloid Angiopathy and Endothelial Cell Dysfunction* American Heart Association \$198,000

Salzer, James L. *Role of Sonic Hedgehog in Remyelination* National Multiple Sclerosis Society \$150,800

Sigurdsson, Einar M. *Clearance of Pathological Tau Conformers* Alzheimer's Drug Discovery Foundation \$125,000

Sivapalasingam, Sumathi *NYU/Bomu Training Program In Kenya* Gilead Sciences \$208,216

Toniolo, Paolo G. *Characterization and Validation of Genomic Expression Signature of Pregnancy* AVON Foundation \$1,400,000

Treisman, Jessica E. *Lipid modification of secreted signaling proteins* March of Dimes \$350,766

Yelon, Deborah L. *Regulation of Cardiac Morphogenesis by a Novel Transmembrane Protein* March of Dimes \$264,000

Zaim Wadghiri, Youssef *Improving Delivery and Labelin Efficiency of MRI Probes for Alzheimer's Plaques* American Health Assistance Foundation \$150,000

# Credits

## IMAGES AND PHOTOGRAPHS

**Front cover:** Image courtesy of Dr. Yulin Ge, Center for Biomedical Imaging, NYU Langone Medical Center.

**Pages 2, 5, 7, and 15:** Photographs by René Perez.

**Page 9:** Photograph by Bud Glick.

**Pages 11, 26, 29, 30, 33, 34, 37, 38, 41, 42, 44, and 56:** Photographs by Paul Schneck.

**Page 12:** Photograph ©Jeff Goldberg/Esto.

**Page 18:** Cover of *Science*, 12 January 2007, reprinted with permission from AAAS.

**Page 19:** Cover on lower left reprinted by permission from Macmillan Publishers Ltd: *Nature Neuroscience*. Vol. 10, No.4, April ©2007

**Page 19:** Cover on upper right is from *International Journal of Parasitology*, Vol. 38, Issue 6, 2008, published by Elsevier.

**Page 20:** Cover on lower right is *Cell Host & Microbe*, Vol. 2, #5 2007, published by Elsevier.

**Page 20:** Cover on upper left is ©2006. Originally published in *The Journal of Cell Biology*. Reprinted with permission from The Rockefeller University Press.

**Page 20:** upper right, © 2006. Originally published in *The Journal of Cell Biology*. Reprinted with permission from The Rockefeller University Press.

**Page 21:** Cover is from *Clinical Neurophysiology*, Vol. 119, #2, 2008, published by Elsevier.

**Pages 22 and 23:** ©2007. Covers originally published in *The Journal of Experimental Medicine*. Reprinted with permission from The Rockefeller University Press.

**Page 25:** Image courtesy of Jérôme Boulaire.

**Page 26:** Background photograph is courtesy of David Frescas, Department of Pathology, NYU School of Medicine .

**Page 28:** Background image is reprinted, with permission, from the *Annual Review of Immunology*, Volume 24 ©2006 by Annual Reviews [www.annualreviews.org](http://www.annualreviews.org)

**Page 29:** Background image is courtesy of Dr. Xiang-Peng Kong, Department of Biochemistry, NYU School of Medicine.

**Page 30:** Background image is courtesy of Dr. Bechera Kachar of the National Institutes of Health.

**Page 33:** Background image ©*The New York Times* Vol. CLV. No.53,764

**Page 34:** Background image courtesy of Daniel Margulies, Department of Child and Adolescent Psychiatry, NYU Langone Medical Center.

**Page 37:** Background image courtesy of Antonio Pereira-Neves and Marlene Benchimol, Santa Ursula University, Rio de Janeiro, Brazil

**Page 41:** Background image courtesy of Asok Kumar, PhD., Department of Pathology, NYU School of Medicine.

**Page 42:** Background image courtesy of Wen-Biao Gan, Ph.D., Department of Physiology and Neuroscience, NYU School of Medicine.

**Page 43:** Background image courtesy of the laboratory of Dr. Evgeny A. Nudler, Ph.D., Department of Biochemistry, NYU School of Medicine.

**Page 51:** Background image courtesy of Dr. Stephen Dewey, Department of Psychiatry, Brookhaven National Laboratories.

**Page 52:** Background image courtesy of Dr. Jay Nierenberg, Department of Psychiatry, NYU School of Medicine, and Nathan S. Kline Institute for Psychiatric Research

**Page 53:** ©Monkey Business Images 2007 Used under license from Shutterstock.com

**Page 54:** Image is of 7 Tesla MR of the brain courtesy of Dr. Yulin Ge, Center for Biomedical Imaging, NYU Langone Medical Center.

**Page 55:** Photograph is by Myko Photography.

**Page 57:** Image is a three-dimensional reconstruction of an MRI of the kidneys and bladder, provided courtesy of the Department of Urology, NYU School of Medicine.

**Design:** h george design, Inc., NYC

**Concept/Copywriting:** Shelley Mazor, NYC

**Printing:** Brilliant Graphics, Exton, PA

**Produced By:** Office of Communications & Public Affairs, NYU Langone Medical Center

10-08-37M