NEW JERSEY MEDICAL SCHOOL ORSP RESEARCH NEWSLETTER

OFFICE OF RESEARCH & SPONSORED PROGRAMS

SPRING/SUMMER 2009
VOLUME 12, ISSUE 12

INSIDE THIS ISSUE:

FEATURED FACULTY
CHUNXIANG ZHANG, M.D., PH.D.
ASSOCIATE PROFESSOR AND VICE CHAIR OF RESEARCH
DEPARTMENT OF ANESTHESIOLOGY

Chunxiang Zhang, M.D., Ph.D. is an Associate Professor and the Vice Chair of Research in the Department of Anesthesiology at the New Jersey Medical School. He obtained his M.D. degree (equivalent) in China in 1987. After obtaining his medical licenses in Internal Medicine, Cardiovascular Medicine and Interventional Cardiology, he entered a Master degree training program at Qingdao Medical College of Qingdao University in 1991. The study for his Master degree focused on the biological roles of Endothelin-1 in cardiovascular disease. In 1994, after obtaining his Master's degree in cardiovascular biology, he entered a Ph.D. (equivalent M.D & Ph.D.) training program at Guangdong Cardiovascular Institute and the WHO center. His thesis dissertation focused on the roles of bFGF in ischemic heart disease. In 1996, he had been to Hong Kong and Australia to perform radioactive stent and human atherosclerotic studies. He was appointed as an Associate Professor and the Director of Laboratory-Based Research at Guangdong Provincial Hospital in 1996. Dr. Zhang obtained his Ph.D. degree in cardiovascular biology in 1997.

Dr. Zhang came to the United States in 1997 as a post-doctoral fellow at the University of Alabama at Birmingham. His postdoctoral study was focused on oxidative stress and vascular biology. He discovered that leukocyte-derived myeloperoxidase (MPO) is a vascular nitric oxide oxidase that plays important roles in endothelial dysfunction. The results from this research were published in Science, Circulation, J Biol Chem and Am J Physiol. Based on his postdoctoral study, his supervisor obtained a new NIH R01 grant in 2000.

In 2001, Dr. Zhang was appointed as an Assistant Professor and the Director of the cross-department Vascular Injury Laboratory at the University of Tennessee. Through 2006, the vascular injury group had generated 8 NIH new grants and over 50 high quality publications. In 2005, he was also appointed as the Director of the Cardiovascular Research Laboratory at the department of Surgery. In 2006, Dr. Zhang was promoted to Associate Professor with tenure at the University of Tennessee.

In 2007, Dr. Zhang was appointed as an Associate Professor and the Vice Chair of Research in the Department of Anesthesiology at the New Jersey Medical School. Since moving to New Jersey, Dr. Zhang has decided that neuroscience and cardiovascular research should be the top priorities of the department's research. With the support of the department, Dr. Zhang has set up a new core laboratory for translational studies, and an RNA & Cardiovascular Research Laboratory within the department. As we well know, anesthesiologists are burdened with clinical work. To increase clinical research activity, the department has decided to give two academic hours per day to the clinical faculty members to perform research. After two year's of hard work, the department's research activity has significantly improved. For example, at the 2008 *American Society of Anesthesiologists* (ASA) meeting, the department had 17 research presentations. Over 40 high quality research articles have been published in the past two years. After receiving new NIH R01 grants, the department is now among the top 40 anesthesiology departments in NIH funding.

Dr. Zhang's research achievements are also well documented by his own research publications and grant generation. He has published 60 peer-reviewed research articles in high impact journals such as Science, J Exp Med, Circ Res., ATVB, Diabetes, JBC and AJP. Since 2001, he has obtained seven NIH R01 grants, two AHA grants and one ADA grant, for which he worked either as Principal Investigator, Co-Principal Investigator, or Co-Investigator. In 1998, he was awarded the First Prize of Science and Technology Achievement from the Chinese government. In 2005, he was awarded the Faculty Award from American Diabetes Association.

Currently, Dr. Zhang's research is focused on the roles of microRNAs in cardiovascular disease, organ protection, and drug addiction. In fact, his lab is the first group to explore the roles of this new layer of gene expression regulation in vascular smooth muscle cell biology and in vascular neointimal lesion formation as shown in his 13 recent microRNA-related publications, including 4 articles in *Circulation Research.* He has just obtained a new grant from the AHA. In addition, one of his recent NIH R01 grant applications received a score that is very close to the supporting rate. There is no doubt that Dr. Zhang will continue to contribute to both the department's research administration and his own research projects.

THANK YOU!!

We would like to thank the NJMS faculty for taking time from their research, teaching, and administrative responsibilities to review proposal applications. Your commitment and dedication has contributed to the success of our NJMS internal funding programs.

We would like to acknowledge the efforts of the following June 2009 review committee members: Dr. David Alland, Dr. Christophe Depre, Dr. Nancy Connell, Dr. Sergei Kotenko, Dr. David Lukac, Dr. BJ Wagner, Dr. Scott Kachlany, Dr. Zoltan Spolarics, Dr. Purnima Bhanot, Dr. Edouard Azzam, Dr. Elizabeth Moran, Dr. Hua Zhu, Dr. George Yap, Dr. Neerja Kaushik-Basu, Dr. Vivian Bellafatto, Dr. Raymond Birge, Dr. Betsy Barnes, Dr. Richard Howells, Dr. Steven Schutzer, Dr. Vincent Tsiagbe, Dr. Issar Smith, Dr. David Lagunoff, Dr. Robert Wieder, Dr. Michael Lea, Dr. Andreas Ivessa and Dr. Salgame Padmini.

ARE YOU INVOLVED IN A UMDNJ START-UP COMPANY?

If so, Foundation Venture Capital Group (FVCG) might be able to help you. Foundation Venture, an affiliate of New Jersey Health Foundation, was founded in 2006 to invest in commercially viable new start-ups developing technology at UMDNJ. FVCG collaborates with the Office of Patents and Licensing to identify the most promising research and provide greater support and opportunities for newly formed start-up companies.

To date, Foundation Venture has made $500,000 commitments to each of four UMDNJ companies: Longevica Pharmaceuticals, Inc.; CellXplore, Inc.; Snowdon Pharmaceuticals and Actinobac Biomed.

“The faculty at UMDNJ has been involved in breakthrough research projects for a number of years, many of them ready to successfully be considered for investment,” explained James M. Golubieski, president. Our investments can help UMDNJ entrepreneurs develop their commercial potential.”

Once these companies are established with this seed funding, Foundation Venture will seek to work with other traditional venture capital companies to partner in the effort to advance these technologies.

“The benefits of this extra early funding from Foundation Venture means that emerging medical breakthroughs in research and technology businesses can be sustained by sufficient venture capital to optimize their chances of success and ultimately provide revenue to UMDNJ and the groups that support these ventures,” explained George F. Heinrich, M.D., vice chair and CEO.

For more information, contact James Golubieski at jgolubieski@njhf.org or Vince Smeraglia, director of Patents and Licensing, at smeragva@UMDNJ.edu .

ANNOUNCING:
NJMS FALL 2009 BRIDGE GRANTS PROGRAM

Applications are now being accepted for bridge grant categories only. Award amount will be $25,000 with no matching fund requirements. Instructions and fillable application forms are available on the ORSP website: http://njms.umdnj.edu/research/orsp/bridge_grants.cfm

Completed application should be delivered to Giovanna Comer at the Office of Research and Sponsored Programs, MSB, C690. Deadline for receipt of applications: October 30, 2009 at 5pm. The program is supported by the Foundation of UMDNJ and the Dean’s Biomedical Research Support Program. For any questions regarding the program, please contact: Gwendolyn Mahon, Ph.D., ORSP extension 2-1591.

IMPORTANT NIH ANNOUNCEMENT:
CHANGES TO GRANT APPLICATION FORM

The NIH has announced significant changes to its grant application form. All new/resubmission applications with due dates on/after January 25, 2010 are required to use the new form. Among other changes, the new form sets shortened page limits and adds new research strategy, significance, innovation and approach sections. In addition, the biographical sketch requirements now includes a personal statement section asking that proposed personnel, "Briefly describe why your experience and qualifications make you particularly well-suited for your role (e.g.,PD/PI, mentor, participating faculty) in the project that is the subject of the application."

Please review this link: http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-149.html

ANNOUNCING:
UMDNJ NOW SUBSCRIBES TO A NEW FUNDING SEARCH RESOURCE

THE KEY TO RESEARCH FUNDING OPPORTUNITIES……

Community of Science or COS Funding Opportunities, is a database with a multitude of records representing billions of dollars in grants, fellowships, etc. All NJMS faculty and researchers can find relevant information to secure the funding needed to advance their research. Listed are some of the services offered through COS:

- COS Funding Opportunities—an up-to-date database of announcements for grants, fellowships, awards and more from around the world, comprising more than 25,200 records worth over $33 billion
- COS Funding Alert—a weekly e-mail notification with a customized list of funding opportunities based on specified criteria provided by the individual COS member.
- COS Expertise—a richly featured knowledge management system for individuals and institutions containing more than 480,000 first-person profiles of researchers from over 1,600 institutions worldwide.
- COS Scholar Universe—a searchable, editorially controlled database of nearly 2 million published scholars in a variety of disciplines.
- COS Public View of Expertise (PVE)—a user-friendly interface to make selected information from an institution's research expertise available to key external constituencies and the general public
- COS Workbench—an easy-to-use Web workspace for Expertise profile holders, with many features to help you promote your work and manage your resume/CV.

MORE GREAT NEWS! DON'T WANT DAILY/WEEKLY UPDATES……Faculty and Researchers can search for funding opportunities without creating a profile. To learn more about COS, please **visit www.cos.com** or contact Giovanna Comer at extension 2-7090 or e-mail comergi@umdnj.edu.

NJMS AWARDED GRANT TO OBTAIN SOLiD® HIGH THROUGHPUT DNA SEQUENCER

The New Jersey Cancer Research Development Award (NJCRDA) from the New Jersey Commission on Cancer Research (NJCCR) submitted by Dr. Robert Donnelly, Director of the Molecular Resource Facility (MRF) has been funded. This award will allow the purchase of the SOLiD® high throughput DNA sequencer for the New Jersey Medical School. The SOLiD® instrument is capable of generating over 25 gigabases of mappable sequence from 300 million reads per instrument run. Applications include whole transcriptome analysis, ChIP sequencing, small RNA analysis, resequencing of bacterial genomes and mammalian chromosomes. Other applications can also be developed. The instrument will be housed in the MRF and managed by the staff of the MRF. The data analysis software and storage will be managed through the Center for Genome Informatics (CGI) which is directed by Dr. Bin Tian. Anyone interested in utilizing this exciting new technology should contact the MRF or the CGI.

NJMS-UH CANCER CENTER AWARDED GRANT TO SUPPORT CANCER CLINICAL TRIALS

The New Jersey Cancer Research Development Award (NJCRDA) to support the UMDNJ-NJMS/UH Cancer Center Clinical Research Office was the only center grant awarded by the State of New Jersey Commission on Cancer Research this year. The PI of the grant is Dr. Robert Wieder, Associate Professor, and Director of the Cancer Clinical Research Office. The goal of the grant was to support the Cancer Center's efforts to provide the minority and medically underserved patient population of our community with access to the same opportunities to participate in cancer clinical trials as those available to the rest of the population. The office supports the conduct of clinical trials in the Cancer Center and the efforts of doctors and scientist to move new discoveries to the clinic. Our program's goal is to bring National Cancer Institute (NCI)-approved clinical trials to the minority patients we treat and to become an NCI-designated Minority-Based Community Clinical Oncology Program. Our other major goal is to help develop new treatments for cancer and support the efforts of the doctors and scientists in the cancer center to test new treatment ideas in cancer patients for whom available therapies are ineffective. Our cancer center serves a patient population which is primarily from the inner city neighborhoods of Newark, surrounding towns and urban communities of Essex County. The patients are more than 60% African American and Latino, have disproportionately low income, high poverty rates and high mortality from cancer. Their participation in NCI-approved clinical trials would be negligible were it not for our program. The proposed clinical research program will work to overcome documented barriers to enrollment, including the lack of availability of protocols, underlying medical conditions that interfere with the ability to participate in clinical trials, a lack of understanding of clinical trials, a mistrust of doctors and the medical system and particularly clinical research, in navigating the complex medical care system, and overcoming language barriers. The physicians and scientist in the Cancer Center are eager to participate and help level the health care delivery field to our patients by promoting new ways of translating new scientific findings into cancer treatments.

GRANT DEADLINES

OCTOBER 2009

10/5-ROI (NEW)
10/5-U01 (NEW)
10/12-K SERIES (NEW)
10/16-R03,R21, R33, R21/R33, R34, R36 (NEW)
10/25-R15 (RENEWAL, RESUBMISSION, REVISION)
10/30-FUMDNJ-BRIDGE PROGRAM

NOVEMBER 2009

11/5-R01(RENEWAL, RESUBMISSION, REVISION)
11/5-U01 (RENEWAL, RESUBMISSION, REVISION)
11/12-K SERIES (RENEWAL, RESUBMISSION, REVISION)
11/16-R03, R21, R33, R21/R33, R34, R36 (RENEWAL, RESUBMISSION, REVISION)

DECEMBER 2009

12/5-R41, R42, R43, R44 ALL-(NEW, RENEWAL, RESUBMSSION, REVISION)
12/8-F SERIES FELLOWSHIPS (NEW, RENEWAL, RESUBMISSION)
12/12– R13, U13 ALL-(NEW, RENEWAL, RESUBMISSION, REVISION)
12/13– F31 DIVERSITY FELLOWSHIPS (NEW, RENEWAL, RESUBMISSION)

PADMINI SALGAME, PH.D.
PROFESSOR
DEPARTMENT OF MEDICINE, DIVISION OF INFECTIUOUS DISEASES
Email: salgampa@umdnj.edu

THE NEW FLOW CYTOMETRY & IMMUNOLOGY CORE LABORATORY

The Flow Cytometry and Immunology Core Laboratory (FCICL) provides flow cytometric services to research laboratories at NJMS and surrounding universities and industry. The facility is located on the F level of the Medical Science Building with satellites in the UH-NJMS Cancer Center and the Center for Emerging and Re-emerging Pathogens. The FCICL operates 3 BD FACSCaliburs, which allow users to analyze basic light scattering properties of cells along with four distinct fluorescent markers, a BD LSRII, which with its four lasers can detect up to 12 fluorescent markers, a BD FACSVantage, a cell sorter for the isolation of distinct fixed/viable cell populations for further studies, and an AMNIS ImageStream multispectral imaging flow cytometer. The ImageStream combines the fluorescence measurements of conventional flow cytometry with the quantification and analysis of cellular morphology. In addition, a BD FACSAria II is on order and will be available for the sorting of BSL-3 pathogens (see accompanying article). The FCICL also provides technical support and training on the instruments and software as well as discounts for BD reagents.

The FCICL is also involved in many HIV/AIDS clinical research projects. We perform flow cytometric analysis of patient samples and provide support for the isolation and cyropreservation of cells and serum. The FCICL is both CAP and IQA certified, thus validating our clinical sample results. The facility is directed by Dr. Patricia Fitzgerald-Bocarsly, Professor, Dana Stein, Technical Director and Dr. James Oleske serving as the Medical Director. For more details on the facility services, please visit our website at: http://njms.umdnj.edu/research/resources/flow_cytometry_cell_sorting/index.cfm

PATRICIA FITZGERALD-BOCARSLY, PH.D.
DIRECTOR

JAMES OLESKE, M.D.
PROFESSOR

DANA STEIN, BS, MT, ASCP
TECHNICAL DIRECTOR

SUKHWINDER SINGH, PH.D.
RA 11

A BD FACSAria II CELL SORTER for BSL-3 PATHOGENS

Dr. Padmini Salgame, from the Center for Emerging and Reemerging Pathogens (CERP), was recently awarded a National Center for Research Resources Shared Instrument Grant for the BD FACSAria II cell-sorter. This grant represents a collaborative effort between Dr. Salgame, researchers in the CERP, researchers at the PHRI and the Flow Cytometry and Immunology Core Laboratory (FCICL). The FACSAria will be located in the BSL-3 Lab in the CERP and operated as a satellite of the FCICL. The acquisition of the FACSAria will allow for the analysis and sorting of live TB and other agents that require BSL-3 handling along with the ability to analyze the interaction between mammalian cells and those pathogens. The FACSAria, which is on order, will be housed within a BSL-3 lab; additional protection for the operator will be provided by an aerosol management device, and the FACSAria itself will be housed in a walk-in Baker Biosafety cabinet. The FACSAria will be equipped with two lasers allowing for the simultaneous acquisition of up to 10 parameters. After the identification of populations of interest, up to 4 distinct populations can be sorted into separate tubes or can be deposited into multi-well plates for further culture or onto slides for microscopic analysis. Please contact Dr. Salgame or the FCICL for more information.

ANNOUNCING:
NEW NIH PEER REVIEW PROCESS

NIH ANNOUNCEMENT

Please be aware that the NIH is no longer using the PA-06-181 and PA-06-180 for the R21 and R03 respectively for the grants.gov application. The new program announcements are PA-09-163 for the R03 and PA-09-164. NJMS prefilled application packages are available on our website link: http://njms.umdnj.edu/research/orsp/rates_forms.cfm

DON'T GET BEHIND THE EIGHT BALL.....

Prepare proposal applications in advance.

For pre-submission review, proposals are due to the ORSP grant administrator ten working days prior to submission.

Final proposals are due to the ORSP grant administrator three days prior to submission.

We cannot guarantee thorough review of proposals submitted less than three days before the submission

Rationale for the New NIH Grant Application Scoring System

The prior scoring system of 1.0 to 5.0 in 0.1 increments served NIH well for many years, but its weaknesses became increasingly evident as the quality and quantity of applications increased and NIH budgets to fund grant applications tightened. The new scoring system is being implemented to address the following issues:

- For even the most experienced reviewers, it is difficult to make 41 reliable discriminations of application merit. Based on measurement science, prior experience, and feedback from various constituencies, a 9-point rating scale with descriptors associated with each rating option was adopted.
- Reviewer ratings became increasingly positive, compressing the score range, and effectively reducing the usefulness of scores for NIH funding decisions. In the new scoring system, the descriptors associated with each rating were designed to encourage use of the full scoring range.
- To provide additional feedback to applicants, program staff, and other consumers of the summary statement, assigned reviewers also provide rating of the specific review criteria using the same 9-point scale.

Impact	Score	Descriptor	Strengths/Weaknesses
High Impact	1	Exceptional	Strengths
	2	Outstanding	
	3	Excellent	
Moderate Impact	4	Very Good	
	5	Good	
	6	Satisfactory	
Low Impact	7	Fair	
	8	Marginal	
	9	Poor	Weaknesses

Non-numeric score options: NR = Not Recommended for Further Consideration, DF = Deferred, AB = Abstention, CF = Conflict, NP = Not Present, ND=Not Discussed

The NIH Grant Application Scoring System

The NIH scoring system uses a 9-point rating scale from 1 = Exceptional to 9 = Poor for the overall impact/priority score as well as the individual review criteria. Ratings are provided only in whole numbers, not decimals. In addition to the descriptors associated with each rating, two additional rating guides (see below) are provided:

- For the impact/priority score, the far left column provides guidance for assigning scores to applications based on the project's likelihood to have a sustained, powerful influence on the research field(s) involved:

  1 to 3 = high impact 4 to 6 = moderate impact 7 to 9 = low impact

- For the impact/priority score and for the individual criterion scores, the far right column provides a graphical guide of how strengths and weaknesses are considered in assigning a rating. A score of 1 indicates an exceptionally strong application (or exceptionally strong significance, investigators, innovation, approach, environment) with essentially no weaknesses. A score of 9 indicates serious and substantive weaknesses with very few strengths. For the impact/priority score rating, strengths and weaknesses across all of the review criteria should be considered. For each criterion rating, the strengths and weaknesses within that review criterion should be considered. In considering strengths and weaknesses, reviewers should consider the relative importance of the strengths and weaknesses noted, not simply the number of strengths and weaknesses.

Links to detailed info on new NIH peer review:

http://grants.nih.gov/grants/peer/reviewer_guidelines.htm

http://enhancing-peer-review.nih.gov/Talking_Points_for_SROs.pdf

http://grants.nih.gov/grants/peer/guidelines_general/scoring_system_and_procedure.pdf

http://grants.nih.gov/grants/peer/guidelines_general/Review_Criteria_at_a_glance.pdf

http://grants.nih.gov/grants/peer/guidelines_general/reviewer_orientation.pdf

THE ABOVE INFORMATION WAS EXCERPTED FROM THE NIH WEBSITE.

CONGRATULATIONS!!

NEW JERSEY MEDICAL SCHOOL
ORSP SUMMER STUDENT RESEARCH PROGRAM

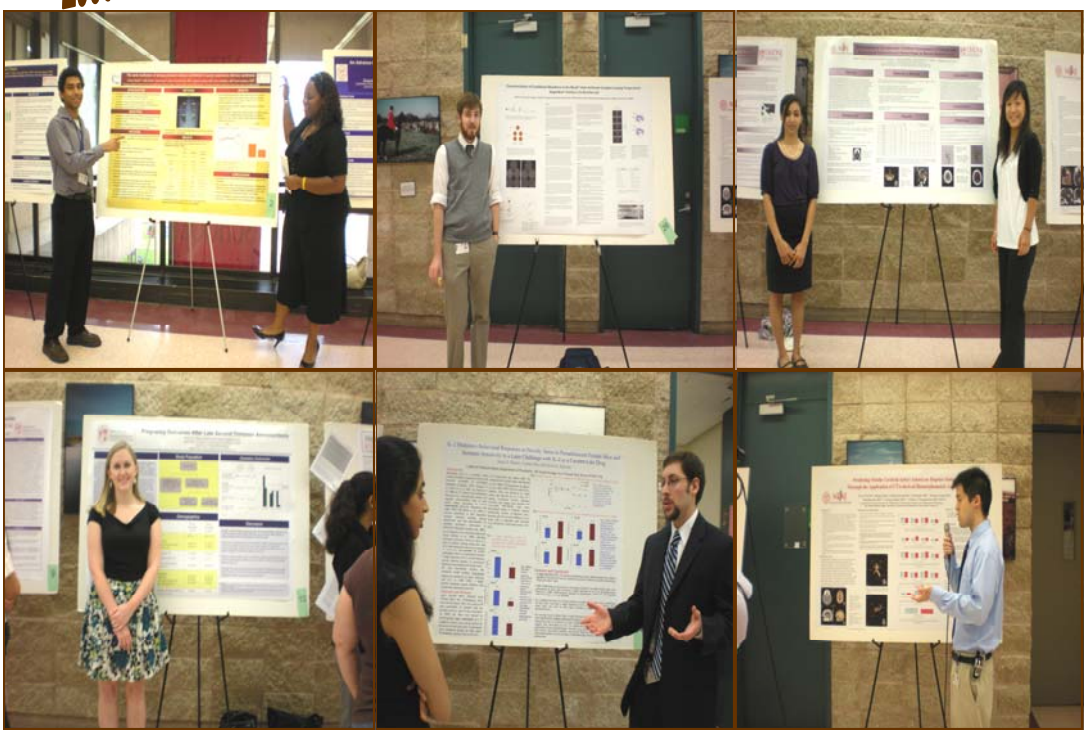
2009 POSTER SESSION WINNERS

1ST PLACE: NEIL KULKARNI
MENTOR: ROBERT LEDEEN, PH.D., PROFESSOR
NEUROLOGY AND NEUROSCIENCES
MENTOR: GUSHENG WU, PH.D., ASSISTANT PROFESSOR
NEUROLOGY AND NEUROSCIENCES
PROJECT TITLE: DEVELOPMENT OF PARKINSON'S SYMPTOMS IN GM1-NULL MICE: EFFECT OF GM1 ANALOGUE LIGA 20

2ND PLACE: IRENE OJINI
MENTOR: CHARLES R. SPILLERT, PH.D., ASSOCIATE PROFESSOR
SURGERY
PROJECT TITLE: GLUCONO-DELTA-LACTONE: AN IN VITRO INHIBITOR OF HYPER GLYCEMIA-INDUCED COAGULATION

2ND PLACE: SHANCHITA GHOSH
MENTOR: MELISSA ROGERS, PHD, ASSOCIATE PROFESSOR
BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: SINGLE NUCLEIOTIDE POLYMORPHISMS AND REGULATION OF BMP2 PROTEIN

2009 ORSP SUMMER STUDENT POSTER HIGHLIGHTS



Note: Summer Student Abstracts will be available by the end of October.

LETITITA DEAN
PROGRAM ADMINISTRATOR
NJMS-ORSP
SUMMER STUDENT RESEARCH PROGRAM

PROPOSAL NOTICES

The ORSP would like to insure that all NJMS faculty and researchers receive credit for successful funding proposals. Please remember to share your award notices with us, as well as the Grants and Contracts Office.

We also need information regarding non-funded proposals. Please help us maintain a current database by informing our office of the outcome for ALL proposals.

QUESTIONS ABOUT GRANT SUBMISSIONS? Contact the appropriate grant administrator or call the main number at 973-972-7766.

For Current Rates Please Visit : http://njms.umdnj.edu/research/orsp Current Rates_001.htm or call Grants and Contracts at 973-972-6456

CONGRATULATIONS!!

NEW JERSEY MEDICAL SCHOOL CANCER EDUCATION PROGRAM

2009 POSTER SESSION WINNERS

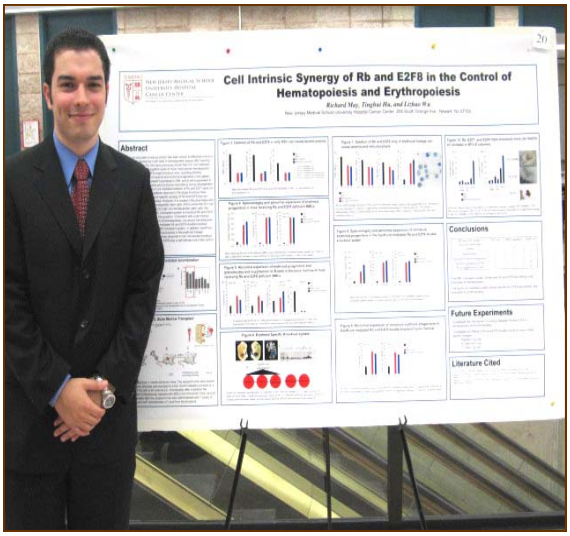
LORIE-ANNE PHILLIPS
COORDINATOR
NJMS-CANCER EDUCATION
SUMMER PROGRAM
Funded by the:
NCI Program Grant
R25CA019536-26

STUDENT WINS COMPETITIVE SCHOLARSHIP TO PRESENT CANCER RESEARCH

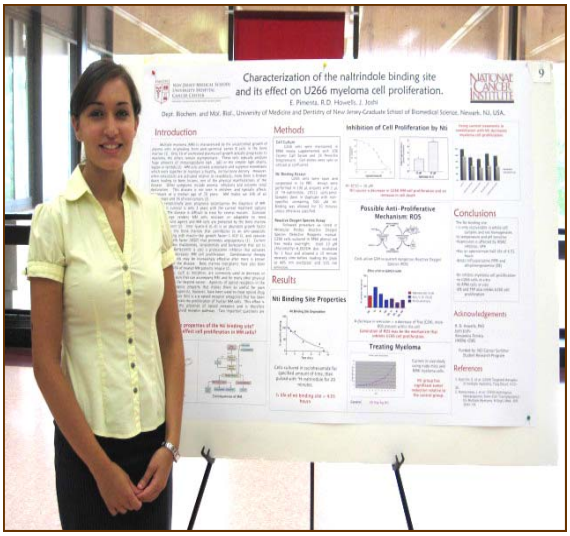
Medical Student III Ronak Shah's research project, performed under the aegis of the 2008 Cancer Summer Student Research Program, (Mentor, Lionel Zuckier, M.D., Professor, Department of Radiology) has been awarded a competitive scholarship award to allow Ronak to present his data at the bi-annual meeting of the Medical Image Perception Society, held this year in Santa Barbara, California.

Ronak's project is entitled "Effect of 3-D Rendering on Conspicuity of PET Lesions Using a Novel Software Method and Deals with New Methods of Visualizing Fused PET-CT Data".

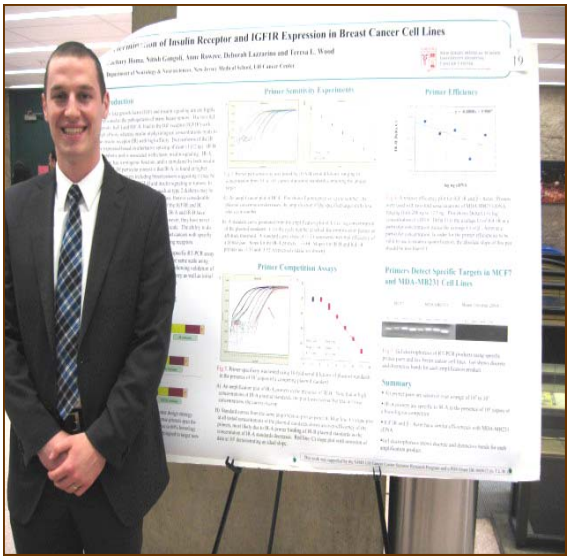
Congratulations Ronak for your successful efforts and thanks to the staff of the Cancer Summer Student Research Program for facilitating the research.



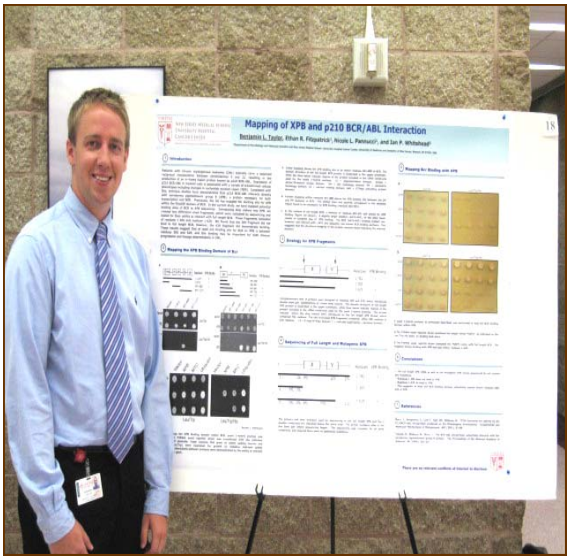
1ST PLACE: RICHARD MAY
MENTOR: LIZHAO WU, PH.D., ASSISTANT PROFESSOR
CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: CELL INTRINSIC SYNERGY OF RB AND E2F8 IN THE CONTROL OF HEMATOPOIESIS AND ERYTHROPOIESIS



2ND PLACE: ERICA PIMENTA
MENTOR: RICHARD D. HOWELLS, PH.D., PROFESSOR
BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: CHARACTERIZATION OF THE INHIBITORY EFFECTS OF NALTRINDOLE ON MULTIPLE MYELOMA CELL



2ND PLACE: ZACHARY HOMA
MENTOR: TERESA L. WOOD, PH.D., PROFESSOR
MENTOR: DEBORAH A. LAZZARINO, PH.D., ASSISTANT PROFESSOR
NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: DETERMINATION OF INSULIN RECEPTOR AND IGF1R EXPRESSION IN BREAST CANCER CELLS



3RD PLACE: BENJAMIN TAYLOR
MENTOR: IAN WHITEHEAD, PH.D., ASSOCIATE PROFESSOR
MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: MAPPING OF XPB AND p210 BCR/ABL INTERACTION

CONGRATULATIONS!!!!
NJMS GRANT AWARD RECIPIENTS

NIH AWARDS

AWARDS RECEIVED
01/01/09-09/15/09

PI: MAHA ABDELLATIF, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: A RasGAP-microRNA Connection in Cardiac Hypertrophy
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $1,560,000

PI: DAVID ALLAND, M.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Rapid Diagnosis of XDR Tuberculosis
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $2,731,877

PI: DAVID ALLAND, M.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Development of a Second Generation MDR-XDR TB Assay
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $7,514,861

PI: ABRAHAM AVIV, PH.D., PROFESSOR
DEPARTMENT: PEDIATRICS
PROJECT TITLE: Leukocyte Telomere Dynamics, Gender, Menopause, Insulin Resistance and Survival
INSTITUTION: National Institute on Aging
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $2,307,494

PI: PING-HSIN CHEN, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: FAMILY MEDICINE
PROJECT TITLE: Early Childhood Development in Relation to Intimate Partner Violence During Pregnancy
INSTITUTION: National Institute of Child Health and Human Development
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $156,000

PI: EDWIN A. DEITCH, M.D., PROFESSOR & CHAIR
DEPARTMENT: SURGERY
PROJECT TITLE: Shock, Trauma and Gut Origin of Sepsis
INSTITUTION: National Institute of General Medical Sciences
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $2,306,263

PI: JOEL A. DELISA, M.D., M.S., PROFESSOR
DEPARTMENT: PHYSICAL MEDICINE & REHABILITATION
PROJECT TITLE: Advanced Rehabilitation Research Training (AART) Center on Neuro-cognitive Rehabilitation
INSTITUTION: National Institute on Disability and Rehabilitation Research
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $749,057

PI: CHRISTOPHE DEPRE, M.D., PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Pre-Emptive Conditioning of the Ischemic Heart
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $1,560,000

PI: WALTER DURAN, PH.D., PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Control of Microcirculatory Exchange Function
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $1,724,227

PI: WILLIAM C. GAUSE, PH.D., SENIOR ASSOCIATE DEAN FOR RESEARCH
DEPARTMENT: MEDICINE
PROJECT TITLE: Cytokine Gene Expression During in Vivo Immune Response
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $1,950,000

PI: AMJAD A. ILYAS, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: Generation of Monoclonal and Polyclonal Antibodies to Neolacto-Series Gangliosides
INSTITUTION: National Institute of Neurological Disorders and Stroke
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $156,000

PI: GILLA KAPLAN, PH.D., PROFESSOR
DEPARTMENT: PHRI
PROJECT TITLE: Emerging XDR-TB: Host and Pathogen Contributions
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $645,349

PI: DAVID DAEKYUNG KIM, PH.D., ADJUNCT ASSISTANT PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Assessment of Meridian Theory in the Vascular System
INSTITUTION: National Center for Complementary and Alternative Medicine
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $429,000

PI: ELDO KUZHIKANDATHIL, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Regulation of D1 Dopamine Receptor Expression by ncRNA in Cocaine Addiction
INSTITUTION: National Institute on Drug Abuse
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $297,160

PI: ELDO KUZHIKANDATHIL, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Functional Characterization of D3 Dopamine Receptor in the Drd3EGFP Transgenic Mice
INSTITUTION: National Institute of Mental Health
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $417,800

PI: DAVID LUKAC, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: Re-Specification of the Notch Response by the HHV-8 Lytic Switch Protein2
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $1,944,960

PI: PATRICK O'CONNOR, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Local Modulation of Inflammation to Heal Cranial-Facial Bone Defects
INSTITUTION: National Institute of Dental & Craniofacial Research
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $2,765,089

PI: VIRENDRA N. PANDEY, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Constituents of HCV Replication Complex
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $447,700

PI: VANESSA ROUTH, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Hormonal Regulation of Glucose Sensing Neurons in Health Diabetes
INSTITUTION: National Institute of Diabetes and Digestive and Kidney Disease
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $390,000

PI: VANESSA ROUTH, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Hypolycemia-Induced NO in Glucose Sensing Neurons and Counterregulation
INSTITUTION: National Institute of Diabetes and Digestive and Kidney Disease
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $1,766,700

NIH AWARDS

PI: LISA K. RYAN, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: PHRI
PROJECT TITLE: Inhibition of Lung Defense by Air Pollutant Particulates
INSTITUTION: National Institute of Environmental Health Services
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $156,000

PI: JUNICHI SADOSHIMA, PH.D., PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Redox Regulation in Aging and Failing Heart
INSTITUTION: National Institute on Aging
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $1,929,289

PI: ZOLTAN SPOLARICS, M.D., PH.D., PROFESSOR
DEPARTMENT: SURGERY
PROJECT TITLE: X-Chromosome, Injury and Infection
INSTITUTION: National Institute of General Medical Sciences
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $1,166,880

PI: BIN TIAN, PH.D., ASSOCIATE PROFESSOR
PI: CAROL LUTZ, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Computational and Experimental Analysis of RNA Structures in mRNA Polyadenylation
INSTITUTION: National Human Genome Research Institute
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $429,000

PI: DOROTHY VATNER, PH.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Rescue of Beta-Adrenergic Cardiomyopathy by Inhibition of Adenylyl Cyclase
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $1,560,000

PI: STEPHEN F. VATNER, M.D., PROFESSOR & CHAIR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Adenylyl Cylase Isoforms in Hypertrophy and Heart Failure
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $2,491,325

PI: STEPHEN F. VATNER, M.D., PROFESSOR & CHAIR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Integrative Mechanism in Cardiovascular Disease
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 5 years
TOTAL AMOUNT OF AWARD: $1,344,545

PI: ROBERT WIEDER, M.D., ASSOCIATE PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Reactivation of Breast Cancer Micrometastases by Senescent Bone Marrow Stroma
INSTITUTION: National Cancer Institute
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $377,520

PI: ROBERT WIEDER, M.D., ASSOCIATE PROFESS
DEPARTMENT: MEDICINE
PROJECT TITLE: The Minority-Based CCOP at UMDNJ-NJ Medical School/UH Cancer Center
INSTITUTION: National Cancer Center
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $1,854,700

ARRA AWARDS

PI: DAVID ALLAND, M.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Integrated Dual Use Systems for Bio Defense and Sepsis Diagnosis
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $98,607

PI: SYLVIA CHRISTAKOS, PH.D., PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Vitamin D Hormone Function and Mechanism of Action
INSTITUTION: National Institute of Diabetes and Digestive and Kidney Disease
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $15,600

PI: PATRICIA FITZGERALD-BOCARSLY, PH.D., PROFESSOR
DEPARTMENT: PATHOLOGY & LABORATORY MEDICINE
PROJECT TITLE: Plasmacytoid Dendritic Cells in HIV Pathogenesis
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $30,076

PI: ROGER HOWELL, PH.D., PROFESSOR
DEPARTMENT: RADIOLOGY
PROJECT TITLE: Protection Against Radiation Induced Damage to Intestinal Nutrient Transport
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $186,648

PI: ZAFRI M. HUMAYUN, PH.D., PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: Mechanisms of Mistranslation-Mediated Mutator Response
INSTITUTION: National Institute of General Medical Sciences
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $134,291

PI: MARK S. JOHNSON, M.D., PROFESSOR & CHAIR
DEPARTMENT: FAMILY MEDICINE
PROJECT TITLE: Minority Initiative for Students and Teachers (MIST)-Phase I/II
INSTITUTION: National Center for Research Resources
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $177,854

PI: SERGEI KOTENKO, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Evasion of Antiviral Protection by Poxvirus-Encoded IFN Antagonists
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $429,000

PI: LEONARD MEGGS, M.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: p66 Isulin Like Growth Factor-1 Reno-Protection in Diabetes
INSTITUTION: National Institute of Diabetes and Digestive Kidney Disease
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $160,627

PI: PADMINI SALGAME, PH.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: TLR2 and the Tubercle Granuloma
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $384,400

PI: VIRENDRA N. PANDEY, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Proteomics of HCV Replication Complex
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD : 2 years
TOTAL AMOUNT OF AWARD: $429,000

ARRA AWARDS

PI: DAVID S. PERLIN, PH.D., PROFESSOR & DIRECTOR
DEPARTMENT: PHRI
PROJECT TITLE: A Rapid and Expandable Nucleic Acid Platform to Detect Blood-stream Infections
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF GRANT: 2 years
TOTAL AMOUNT OF AWARD: $335,767

PI: ABRAHAM PINTER, PH.D., PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: Antigenic Properties of the V1/V2 Domain of HIV-1 gp120
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $641,803

PI: LANBO SHI, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Dissection of Mycobacterum Tuberculosis Metabolic and Regulatory Pathways to Persistence
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $429,000

PI: VANESSA ROUTH, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Role of Neuropeptide Y-glucose Inhibited (NPY-GI) Neurons in Cytokine-Induced Anorexia-Cachexia
INSTITUTION: National Cancer Institute
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $377,520

PI: JUNICHI SADOSHIMA, M.D., PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Redox Regulation in Aging and Failing Heart
INSTITUTION: National Institute on Aging
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $155,276

PI: BRUCE SCHARF, DVM, DACLAM, DIRECTOR
DEPARTMENT: COMPARATIVE MEDICINE RESOURCES
PROJECT TITLE: NJMS Request for Autoclave and Tunnel Washer
INSTITUTION: National Center for Research Resources
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $500,000

PI: ISSAR SMITH, PH.D., PROFESSOR
DEPARTMENT: PHRI
PROJECT TITLE: Molecular Determinants of M Tuberculosis Virulence
INSTITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $45,692

PI: ISSAR SMITH, PH.D., PROFESSOR, PH.D.
PI: GLORIA M. RODRIGUEZ, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: PHRI
PROJECT TITLE: Mechanisms and Regulation of Mycobacterium Tuberculosis Iron Acquisition
INSTITITUTION: National Institute of Allergy and Infectious Diseases
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $584, 781

PI: KATSUNORI SUGIMOTO, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Signaling Network of Mec1 in DNA Damage Response
INSTITUTION: National Institute of General Medical Sciences
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $108,497

PI: CAROLYN SUZUKI, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: High Throughput Screens for Modulators of Mitochondrial ATP-dependent Proteolysis
INSTITUTION: National Institute of General Medicine
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $733,700

PI: ANDREW P. THOMAS, PH.D., PROFESSOR & CHAIR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Ethanol on Excitation-Contraction in Cardiac Cells
INSTITUTION: National Institute on Alcohol Abuse and Alcoholism
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $156,000

PI: BIN TIAN, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Analysis of MrNA Polyadenylation Across Species and Tissues
INSTITUTION: National Institute of General Medical Sciences
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $134,431

PI: ELLEN TOWNES-ANDERSON, PH.D. PROFESSOR
DEPARTMENT: NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: Designer Retinal Circuits: Interfacing Optical Tweezers with an Electronic Device
INSTITUTION: National Eye Institute
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $38,000

PI: ELLEN TOWNES-ANDERSON, PH.D., PROFESSOR
DEPARTMENT: NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: Plasticity and Regeneration of Retinal Synapses
INSTITUTION: National Eye Institute
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $692,480

PI: LIN YAN, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Gender Differences in Caloric Restriction Cardioprotection
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $234,000

PI: LIN YAN, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Mechanisms of Intrinsic Cardioprotection in Marmota Momax
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $209,552

PI: GEORGE S. YAP, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Regulation of Type 1 Immunity to Toxoplasma
INSTITUTION: National Institution of Allergy and Infectious Diseases
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $780,000

AHA AWARDS

PI: DEBKUMAR PAIN, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Role of GTP in Iron-Sulfur Cluster Formation in Mammalian Mitochondria
INSTITUTION: American Heart Association
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $198,000

PI: MELISSA ROGERS, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Natural Repressors of BMP2 Synthesis
INSTITUTION: American Heart Association
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $198,000

PI: PIEYONG ZHAI, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: The Role of the GSK-3 Alpha in Cardiac Growth, The Development of Cardiac Hypertrophy and the Progression to Heart Failure
INSTITUTION: American Heart Association
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $308,000

PI: CHUNXIANG ZHANG, PH.D., VICE CHAIR, RESEARCH
DEPARTMENT: ANESTHESIOLOGY
PROJECT TITLE: MicroRNA-145 in the Next Generation of Drug Eluting Stents
INSTITUTION: American Heart Association
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $198,000

INSTITUTIONAL TRAINING GRANTS & FELLOWSHIP AWARDS

PI: AMANDA B. MCBRIDE
MENTOR: PADMINI SALGAME, PH.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Immunosuppressive Role of TLR2 in Host Immunity to Mycobacterium Tuberculosis
INSTITUTION: National Heart, Lung and Blood Institute
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $90,762

PI: TINGHU HU
MENTOR: LIZHAO WU, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Rb/E2F Pathway in Hematopoiesis and Leukemia
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $86,167

PI: PIOTR PIEROG
MENTOR: PATRICIA FITZGERALD-BOCARSLY, PH.D, PROFESSOR
DEPARTMENT: PATHOLOGY & LABORATORY MEDICINE
PROJECT TITLE: Persuading PDC to Cross-Present Tumor Antigen to CTL
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $50,000

PI: VICTORIA PRINCE
MENTOR: ANDREW THOMAS, PH.D., PROFESSOR & CHAIR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: The Role of cAMP Signaling Changes in Alcoholic Liver Disease
INSTITUTION: National Institute on Alcohol Abuse and Alcoholism
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $135,496

PI: TODD P. STITIK, M.D., PROFESSOR
DEPARTMENT: PHYSICAL MEDICINE & REHABILITATION
PROJECT TITLE: Musculoskeletal Medicine Fellowship Training Program
INSTITUTION: Allergan, Inc.
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $40,000

PI: AMBER ZIEGLER
MENTOR: STEVEN W. LEVISON, PH.D., PROFESSOR
DEPARTMENT: NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: IGF2 AND NEURAL STEM CELL HOMEOSTASIS
INSTITUTION: Ruth L. Kirschstein National Research Service Award
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $91,077

SHARED INSTRUMENT AWARDS

PI: ROBERT DONNELLY, PH.D., DIRECTOR
DEPARTMENT: MOLECULAR RESOURCE FACILITY
PROJECT TITLE: Deep Sequencing Analysis of Cancer Phenotypes
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $500,000

PI: PADMINI SALGAME, PH.D., PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: B-D Facsaria for use in BSL-3
INSTITUTION: National Center for Research Resources
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $464,744

PI: STEPHEN F. VATNER, M.D., PROFESSOR & CHAIR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Vevo 770 High Resolution Imaging System
INSTITUTION: National Center for Research Resources
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $202,600

MISC. STATE AND NATIONAL AWARDS

PI: SYLVIA CHRISTAKOS, PH.D., PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: Protection Against Experimental Autoimmune Encephalomyelitis by Calbindin-D28K
INSTITUTION: National Multiple Sclerosis Society
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $33,000

PI: SERGEI KOTENKO, PH.D., ASSOCIATE PROFESSOR
DEPARTMENT: BIOCHEMISTRY AND MOLECULAR BIOLOGY
PROJECT TITLE: Inhibition of Type 1 and Type III IFNs by Poxvirus-Encoded Soluble Proteins
INSTITUTION: The Alliance for Lupus Research
DURATION OF AWARD: 4 years
TOTAL AMOUNT OF AWARD: $489,202

PI: NICHOLAS M. PONZIO, PH.D., PROFESSOR
DEPARTMENT: PATHOLOGY & LABORATORY MEDICINE
PROJECT TITLE: Influence of Material Cytokines Produced During Pregnancy on Effector and Regulatory T Helper Cells as Etiological Factors in Autism
INSTITUTION: Autism Speaks
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $330,000

PI: VIJAYALAKSHMI SANTHAKUMAR, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: Tonic GABAgeric Inhibitor after Brain Injury: Role in Epileptogenicity
INSTITUTION: NJ Commission on Brain Injury Research
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $449,424

PI: JANINE SANTOS, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Molecular Mechanism of hTERT Function in Mitochondria
INSTITUTION: United States Army
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $90,000

PI: MARIA L. SOTO-GREENE, M.D., VICE DEAN, NJMS & PROFESSOR OF MEDICINE
DEPARTMENT: NJMS-OFFICE OF THE VICE DEAN
PROJECT TITLE: Centers of Excellence
INSTITUTION: DOHHS-Health Resources and Services Administration
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: 2,170,990

PI: PAULETTE STANFORD, M.D., ASSOCIATE PROFESSOR
DEPARTMENT: PEDIATRICS
PROJECT TITLE: STOP Mobile Counseling and Testing Unit Program
INSTITUTION: New Jersey Department of Health and Senior Services
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $327,050

PI: ROBERT WIEDER, M.D., ASSOCIATE PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Reactivation of Breast Cancer Micrometastases by Senescent Bone Marrow Stroma
INSTITUTION: United States Department of Defense
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $578,347

PI: LIZHAO WU, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Synergistic Role of Retinoblastoma and E2F8in Maintaining Normal Hematopoiesis and Preventing Hematologic Malignancies
INSTITUTION: Leukemia Research Foundation
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $100,000

PI: WALTER M. ZAHORODNY, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: PEDIATRICS
PROJECT TITLE: Enhancing Current Capacity for Surveillance of Autism Spectrum Disorders in New Jersey
INSTITUTION: Centers for Disease Control and Prevention
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $400,000

PI: MARCO A. ZARBIN, M.D., PH.D., PROFESSOR & CHAIR
DEPARTMENT: OPHTHALMOLOGY
PROJECT TITLE: National Eye Evaluation Research Network Clinical Treatment and Evaluation Center
INSTITUTION: The National Neurovision Research Institute
DURATION OF AWARD: 3 years
TOTAL AMOUNT OF AWARD: $580,035

NJCCR AWARDS

PI: BETSY BARNES, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: New Routes to Apoptosis that are P53-Independent
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $264,018

PI: ROBERT DONNELLY, PH.D., DIRECTOR
DEPARTMENT: MOLECULAR RESOURCE FACILITY
PROJECT TITLE: DEEP SEQUENCING ANALYSIS OF CANCER PHENOTYPES
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $500,000

PI: LAWRENCE E. HARRISON, M.D., ASSOCIATE PROFESSOR
DEPARTMENT: SURGERY
PROJECT TITLE: Induced Oxidative Stress with Hyperthermic Perfusion
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $133,850

PI: ROBERT WIEDER, M.D., ASSOCIATE PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: UH Cancer Center Clinical Research Program-UMDNJ-NJMS
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $476,340

PI: LIZHAO WU, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: The Role of the E2f3 Locus in Myc-Triggered Prostate Cancer
INSTITUTION: New Jersey Commission on Cancer Research
DURATION OF AWARD: 2 years
TOTAL AMOUNT OF AWARD: $269,139

NJMS FUMDNJ AWARDS

PI: NANCY CONNELL, PH.D, PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Low Oxygen Recovery Assay (LORA) and TB Drug
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: MARIANA DELORENZO, PH.D, INSTRUCTOR RESEARCH TRACK
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Effects of Caloric Restriction (CR) on Mammary Tumor Growth and Mestastases
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: PATRICIA FONTAN, PH.D, ASSISTANT PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Analysis of the Molecular Mechanisms of Drug Tolerance in Mycobacterium Tuberculosis
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: GYORGY HASKO, PH.D, ASSOCIATE PROFESSOR
DEPARTMENT: SURGERY
PROJECT TITLE: CB_2 Cannabinoid Receptors in Trauma and Sepsis
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: NICHOLAS ILLSLEY, PH.D, PROFESSOR
DEPARTMENT: OB/GYN
PROJECT TITLE: Folate Receptor Autoantibodies and Placental Uptake of Folate
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: ROBERT LEDEEN, PH.D, PROFESSOR
DEPARTMENT: NEUROLOGY & NEUROSCIENCES
PROJECT TITLE: Role of GM1 Ganglioside in Neuronal Function
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: CAROLYN SUZUKI, PH.D, ASSISTANT PROFESSOR
DEPARTMENT: BIOCHEMISTRY & MOLECULAR BIOLOGY
PROJECT TITLE: The Mitochondrial ATP-dependent Lon Protease in Cardiac Ischemia and Hypertrophy
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: IAN WHITEHEAD, PH.D, ASSOCIATE PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: Exploring a Role for Ubiquitin Binding in BCR/ABL-mediated Leukemogenic Activity
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: LIZHAO WU, PH.D, ASSISTANT PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PROJECT TITLE: Synergistic Role of E2F8 and Rb in the Control of Hematopoiesis and Hematologic Malignancies
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $25,000

PI: DAVID DUBNAU, PH.D, PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PI: MATTHEW NEIDTICH, PH.D, ASSISTANT PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: Purification and Crystallization of MecA-ClpC Complexes
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $35,000

PI: KOSAKU IWATSUBO, PH.D, ASSISTANT PROFESSOR
DEPARTMENT: CELL BIOLOGY & MOLECULAR MEDICINE
PI: MARTHA NOWYCKY, PH.D, PROFESSOR
DEPARTMENT: PHARMACOLOGY & PHYSIOLOGY
PROJECT TITLE: Regulation of Melanoma Cell Migration by Epac/Calcium Pathway
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $35,000

PI: ABRAHAM PINTER, PH.D, PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PI: SALLY HODDER, MD, PROFESSOR
DEPARTMENT: MEDICINE
PROJECT TITLE: Determining HIV-1 Subtype C Prevalence in a Newark, New Jersey Cohort
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $35,000

PI: TERESA WOOD, PH.D, VICE CHAIR FOR BASIC SCIENCE RESEARCH
DEPARTMENT: NEUROLOGY & NEUROSCIENCE
PI: UTZ HERBIG, PH.D., ASSISTANT PROFESSOR
DEPARTMENT: MICROBIOLOGY & MOLECULAR GENETICS
PROJECT TITLE: GF Signaling Promotes Bypass of Cellular Senescence During Early Stage of Breast Cancer
DURATION OF AWARD: 1 year
TOTAL AMOUNT OF AWARD: $35,000

ORSP ALUMNI

August 2009 farewell get together with Faculty and Staff for Regeane and Margaret.

Regeane Frederique, Assistant Manager ORSP, recently left NJMS to take a position at FEMA. Best wishes to Regeane in her new position.

Congratulations to Margaret Brinley, ORSP Summer Student Research Program Assistant, who is now a student at the UMDNJ School of Nursing.

We are currently advertising for a new ORSP Grants and Contracts Administrator.

ORSP MANAGEMENT

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Assistant Dean for Research Administration
Telephone: 973-972-1591/E-mail: mahongm@umdnj.edu

Sharon McFarlane
Manager
Telephone: 973-972-0281/E-mail: mcfarlsb@umdnj.edu

Questions/Comments regarding the ORSP Newsletter
contact Giovanna Comer at: 973-972-7090/E-mail: comergi@umdnj.edu

ORSP GRANT ADMINISTRATOR DEPARTMENT ASSIGNMENTS

Sharon McFarlane-Direct Extension: 973-972-0281
Email: mcfarlsb@umdnj.edu
Biochemistry, Cell Biology, Liver Center, Neurosciences, Psychiatry, Radiology, and Surgery

Letitia Dean-Direct Extension: 973-972-0283
Email: deanle@umdnj.edu
Academic Administration, Family Medicine, Neurological Surgery, Ophthalmology, Pathology and Physical Medicine

Cecilia Areco-Direct Extension: 973-972-4569
Email: arceoce@umdnj.edu
PHRI, Pediatrics, Medicine, and Microbiology

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ORSP MISSION STATEMENT

Research is an integral component of the New Jersey Medical School (NJMS) and its mission as a healthcare and educational institution. The Office of Research and Sponsored Programs (ORSP) is charged with providing pre-award administration to all faculty and staff. ORSP is responsible for assisting principal investigators with application for funding opportunities in support of their research activities and sponsored programs. The goal of ORSP is to provide assistance, guidance and support for identifying funding opportunities, application preparation and proposal tracking. ORSP also provides oversight for medical student research programs. ORSP is dedicated to facilitating the research and research-related programs of our faculty, administration, students and staff.