



UNM HEALTH SCIENCES CENTER

ANNUAL REPORT OF CONTRACTS AND GRANTS, 2013

PIONEERING RESEARCH DISCOVERING TOMORROW'S CURES



UNM HSC VISION, MISSION AND CORE VALUES

VISION

The University of New Mexico Health Sciences Center will work with community partners to help New Mexico make more progress in health and health equity than any other state by 2020.

MISSION

Our mission is to provide an opportunity for all New Mexicans to obtain an excellent education in the health sciences. We will advance health sciences in the most important areas of human health with a focus on the priority health needs of our communities. As a majority-minority state, our mission will ensure that all populations in New Mexico have access to the highest quality health care.

CORE VALUES

The UNM Health Sciences Center's most important value is a steadfast duty to improve the health of all New Mexicans. We will serve our patients and the public with **integrity** and **accountability**. We will strive as an institution and as individuals to recognize, cultivate and promote all forms of **diversity**; to fully understand the health needs of our communities; and to advance clinical, academic, and research **excellence**. We are committed to perform our duties with **compassion** and **respect** for our patients, learners, and colleagues; and always to conduct ourselves with the highest level of **professionalism**.



ANNUAL REPORT OF CONTRACTS AND GRANTS, 2013

Letters

From the Chancellor for Health Sciences	2
From the Executive Vice Chancellor, Vice Chancellor for Research	3
From the Dean of the College of Nursing	4
From the Dean of the College of Pharmacy	5
From the Executive Vice Dean of the School of Medicine	6

Featured Stories

<i>Can Peers Deliver Treatment for Addiction and Trauma?</i>	7
<i>How Does Multiple Sclerosis Affect the Brain?</i>	8
<i>Can We Expand the Window of Opportunity for Treating Stroke Patients?</i>	9
<i>How Can We Improve Treatment for Ovarian Cancer?</i>	10
<i>What Makes Cancer Cells Different?</i>	11
<i>Is There a Way to Reverse Vision Loss in Diabetes?</i>	12
<i>How Do I Prevent Dialysis if I Have Diabetes?</i>	14
<i>What Are the Long-Term Effects of Asthma Medication on Kids?</i>	15
<i>How Can We Better Protect Children with Chronic Kidney Disease?</i>	16
<i>Are Lungs a Pathway to Cardiovascular Disease?</i>	18
<i>What Are the Long-Term Effects of Uranium Mining on Navajo People?</i>	20
<i>How Can We Power-Up Our Immune Systems from the Inside?</i>	21
<i>Can We Find New Uses for Drugs to Improve Our Health?</i>	22
<i>Is New Mexico Prepared to Care for Our Military Veterans?</i>	23
<i>What Can Our Mouths Tell Us about Our Bodies?</i>	24
2013 Excellence in Research Award Winners	26
Profiles of 2012 Excellence in Research Awards Winners	27
UNM Health Sciences Center Research Highlights and Milestones	28
Training Grant Awards	30
HSC Research – By the Numbers	32
Listing of Contracts & Grants 2013	33-56



Paul Roth, MD, MPH

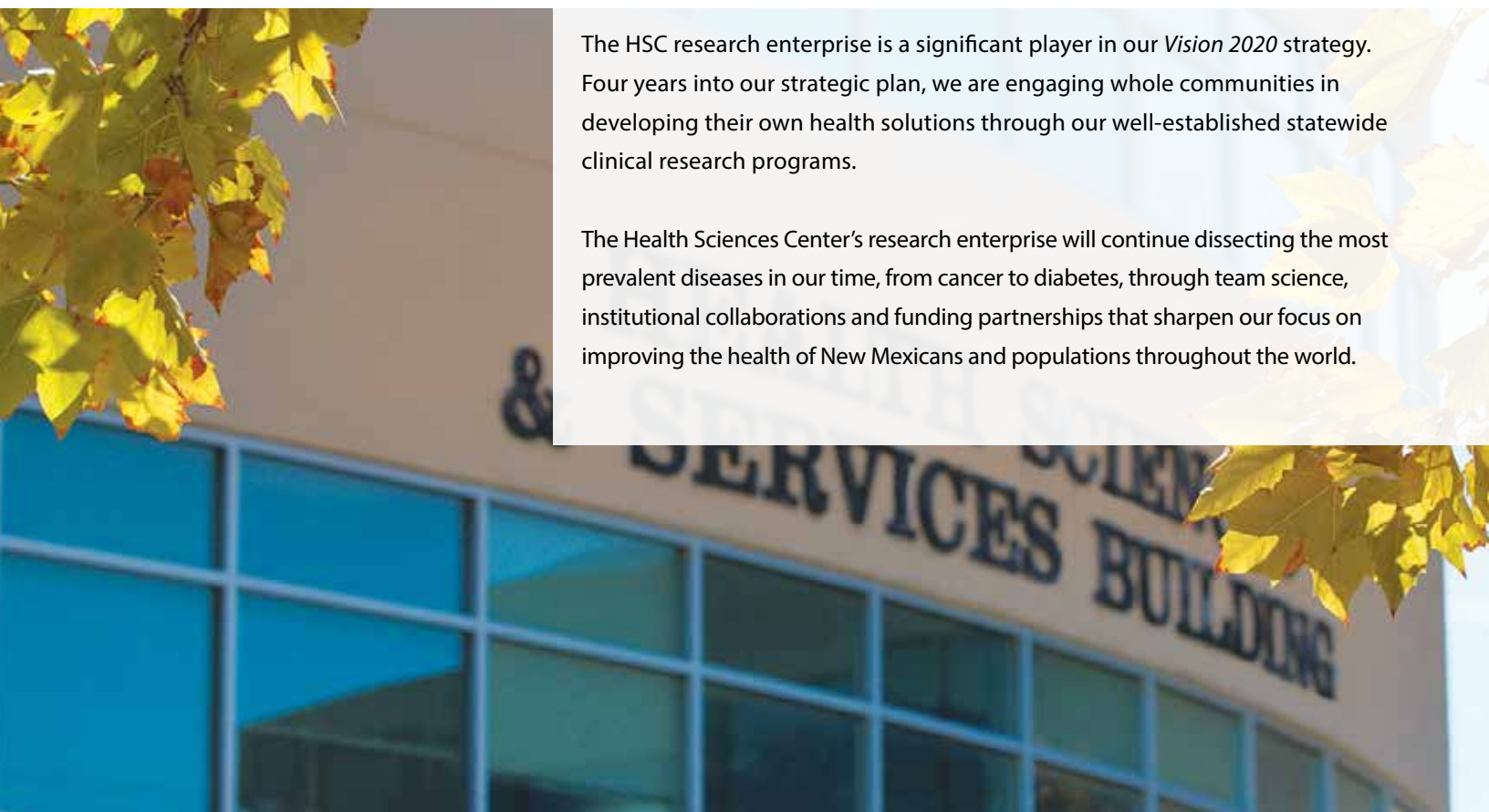
This is an exciting time in biomedical research. Never before have we been so focused on directly advancing human health. From larger, community-based research programs to microbiological investigations, we have an energized, dedicated research community. As you'll read in these pages, our investigators are passionate about their work, bringing vital insight to their study designs and health discoveries.

This energy is properly guided by the UNM Health Sciences Center's *Vision 2020*, which establishes clear educational, clinical and research goals for the next decade. Adopted in 2010, *Vision 2020* is the template for the first academic health center strategic plan that focuses on improving a state population's health and health equity as a measure of the institution's success. Accordingly, all HSC colleges, schools, departments and programs have incorporated measures to improve the health of New Mexico into their annual performance.

Vision 2020 is an ambitious and worthy pursuit, to which no other academic health center has committed. We are using evidence-based interventions and evidence-informed policy to build on successful programs and pilots, while aligning existing resources to address community health priorities.

The HSC research enterprise is a significant player in our *Vision 2020* strategy. Four years into our strategic plan, we are engaging whole communities in developing their own health solutions through our well-established statewide clinical research programs.

The Health Sciences Center's research enterprise will continue dissecting the most prevalent diseases in our time, from cancer to diabetes, through team science, institutional collaborations and funding partnerships that sharpen our focus on improving the health of New Mexicans and populations throughout the world.



FROM THE EXECUTIVE VICE CHANCELLOR AND VICE CHANCELLOR FOR RESEARCH

The University of New Mexico Health Sciences Center is thriving in an increasingly challenging biomedical research landscape, having attracted a record \$149.8 million in extramural funding for Fiscal Year 2013. Our faculty and staff tirelessly pursue scientific advances to improve New Mexicans' lives in line with our *Vision 2020* strategic plan. They collaborate across disciplines to carry out participatory, clinical and basic research, while benefiting from strong state-wide community partnerships.

The Clinical and Translational Science Center remains central to the HSC research effort. Since opening in 2010, the center has sped the dissemination of research into clinical practice, directly accounting for more than \$73 million of new extramural funding (including more than \$26 million in grants resulting from \$2.8 million in pilot funding).

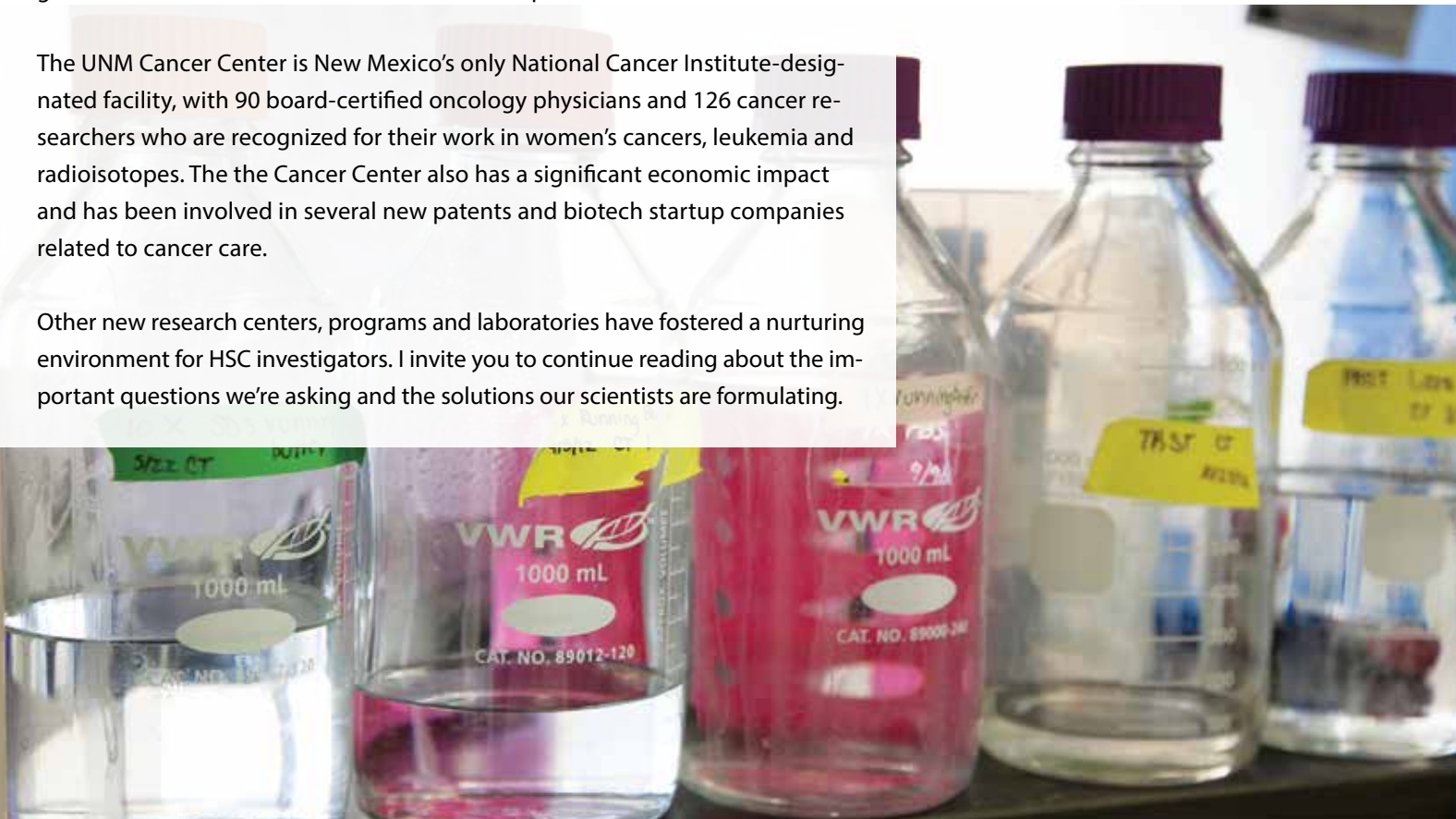
Thanks to this success, the CTSC has supported more than 100 clinical trials for the treatment of asthma, diabetes, obesity, brain trauma, stroke, cystic fibrosis and other diseases. It also leads regional scientific consortia and recently won a \$20.2 million grant to build biomedical research throughout the Mountain West. The CTSC's Community Engagement Research Core has supported more than 30 community-based research projects, including a recent programmatic grant in southern New Mexico to examine best practices for rural clinics.

The UNM Cancer Center is New Mexico's only National Cancer Institute-designated facility, with 90 board-certified oncology physicians and 126 cancer researchers who are recognized for their work in women's cancers, leukemia and radioisotopes. The the Cancer Center also has a significant economic impact and has been involved in several new patents and biotech startup companies related to cancer care.

Other new research centers, programs and laboratories have fostered a nurturing environment for HSC investigators. I invite you to continue reading about the important questions we're asking and the solutions our scientists are formulating.



Richard Larson, MD, PhD





*Nancy Ridenour,
PhD, RN, APRN, BC,
FAAN*

The College of Nursing's research and service grants and contracts continued to grow during the past fiscal year. The College historically has focused its research and service projects on promoting health and preventing disease, while helping patients and families manage illnesses. Much of our work has been community based, centered on improving health outcomes for vulnerable populations and reducing health disparities. The College also leads in health policy research, analysis and advocacy to create interdisciplinary solutions to urgent health care and health policy problems.

While these priorities continue to be the cornerstone of our research, we are building on our strengths to develop our capacity in new areas, such as dissemination and implementation science. The College is working in interdisciplinary research teams to promote the adoption of evidenced-based clinical practice guidelines and develop new partnerships with industry, regional and national organizations and government. This model of collaborative research and service will grow in coming years as we work with our colleagues and partners to address important New Mexico health priorities.

The College also leverages its expertise in focusing on research that includes outcomes relevant to patients. This translational approach – developing and delivering health solutions directly to patients and communities – better positions the College to respond to the growing national emphasis on patient-centered outcomes research.



The UNM College of Pharmacy takes pride in the breadth of its research and its funding success. College faculty members have an excellent track record in securing extramural research funding in toxicology, pharmacology, pharmaceutical sciences, clinical sciences, pharmaceutical care and outcomes research. The College's environmental health and radiopharmaceutical development programs have long garnered national recognition, and the College's clinical research initiative is experiencing rapid growth.

Despite the federal budget sequestration, research grants and contracts awarded to faculty members this year exceeded \$5.6 million – an impressive 64 percent increase in extramural funding over the previous year. Moreover, in its most recent annual research performance rankings, the American Association of Colleges of Pharmacy ranked UNM 27th in total funding and 30th in NIH funding among 129 US colleges of pharmacy.

Given the challenging funding environment, the College recognizes that inter-disciplinary scientific collaborations are integral to securing increased federal funding. It has devoted significant resources to supporting team science collaborations while cultivating areas of excellence. The College launched its "Request-for-Proposals Intramural Pilot Funding Initiative" to stimulate the formation of interdisciplinary teams and increase success rates for extramural applications, large-scale NIH programmatic grant awards and other high-impact outcomes. The College also continues to facilitate research mentorship by providing research and grant writing workshops to new and junior faculty.

The College recognizes the importance of translational research, which spans the continuum from bench research involving drug target identification and drug discovery to clinical research, health outcomes and policy research. This positions it at the forefront of interdisciplinary translational research, poised to expand its research efforts.



*Lynda S. Welage,
PharmD, FCCP*





Thomas Williams, MD

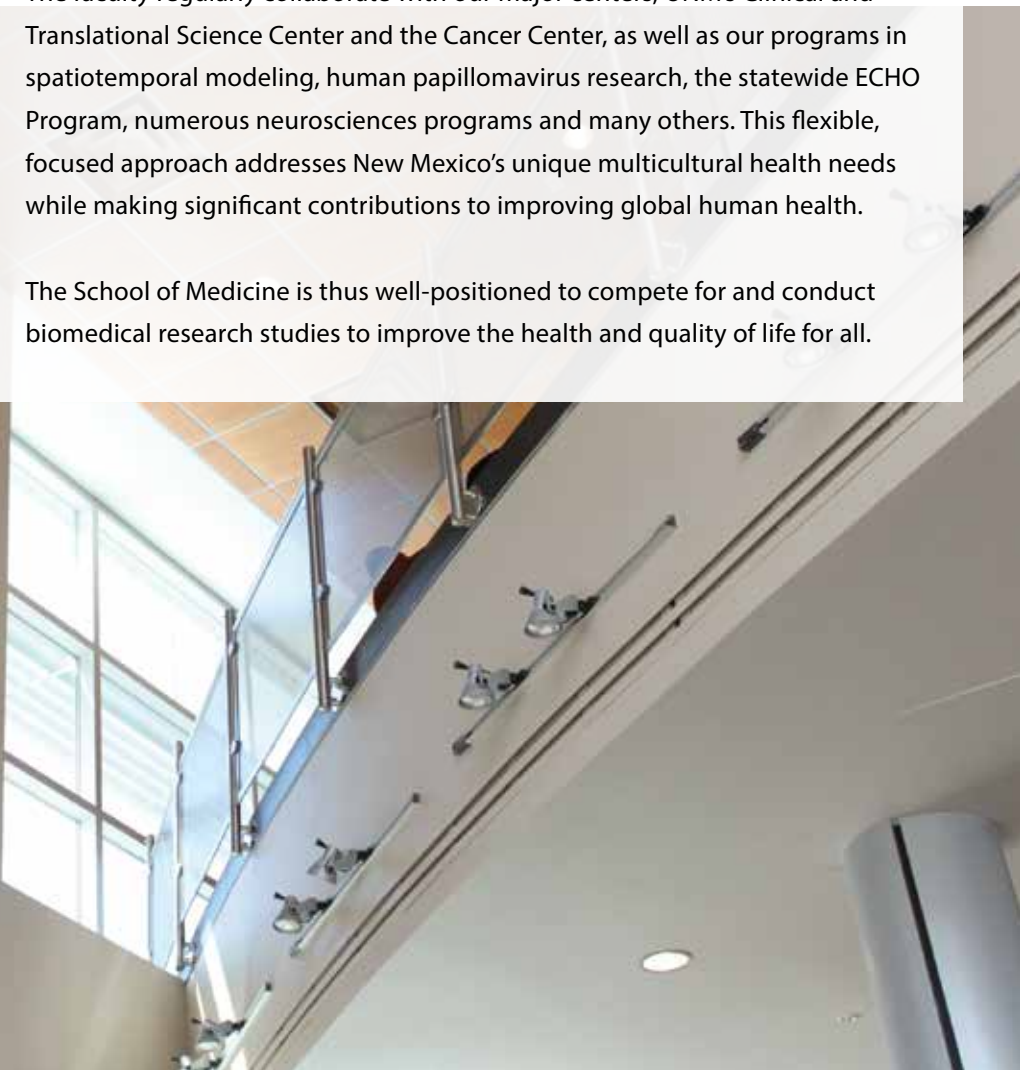
The UNM School of Medicine has been exploring ways to improve human health through biomedical research since its founding nearly 50 years ago. Faculty members conduct a broad range of research, from cell- and animal-based laboratory studies to patient-oriented, community engaged clinical investigations.

The research interests of the school's 950 faculty members are closely aligned with the Health Sciences Center's six signature programs: brain and behavioral illness, cancer, cardiovascular and metabolic disease, child health, environmental health services and infectious diseases and immunity.

Our scientists also focus on population health, comparative effectiveness research, advanced microscopy, molecular screening for drugs, the neurosciences, immunology and cell biology. This research, conducted by interdisciplinary teams, has substantially improved health in New Mexico and throughout the world.

The faculty regularly collaborate with our major centers, UNM's Clinical and Translational Science Center and the Cancer Center, as well as our programs in spatiotemporal modeling, human papillomavirus research, the statewide ECHO Program, numerous neurosciences programs and many others. This flexible, focused approach addresses New Mexico's unique multicultural health needs while making significant contributions to improving global human health.

The School of Medicine is thus well-positioned to compete for and conduct biomedical research studies to improve the health and quality of life for all.





CAN PEERS DELIVER TREATMENT FOR ADDICTION AND TRAUMA?

When Alex Romero, a recovering heroin addict, came to the Inside Out peer treatment program in Española two years ago, it was so beneficial that he became a peer specialist to help others.

Success stories like his encourage UNM psychiatric epidemiologist Annette Crisanti, who is studying the benefits of using peers in mental health clinical settings. "It's therapeutic to have a peer work with you – someone who really knows what you've been through," says Crisanti, who is testing whether peers can deliver "Seeking Safety," an evidence-based cognitive-behavioral therapy model, to combat trauma and substance abuse.

Crisanti is partnering with The Life Link, a Santa Fe non-profit that provides therapists for the control group, and Inside Out, which recruits participants and peers. Effective treatment is badly needed in Rio Arriba County, which has one of the highest drug-induced death rates in the nation – 62 per 100,000 people – and a shortage of mental health providers.

Kathy Sutherland-Bruaw founded Inside Out because she grew frustrated seeing people fall through the cracks. "Based on my own life experiences, I wanted to bring much-needed resources to this community," she says. "My hope is that people who are addicted to drugs can learn how to cope."

For Romero, being a peer counselor is an opportunity to change the future. "Addiction and trauma can be intergenerational, and this is a great opportunity to break the chain," he says. "I am so glad we can offer this program free to our community."



Principal Investigator

Annette Crisanti, PhD, Research Associate Professor, Department of Psychiatry

Grant Name

Patient-Centered Trauma Treatment for PTSD and Substance Abuse: Is it an Effective Treatment Option?

Grantor

Patient-Centered Outcomes Research Institute (PCORI)



Donna Seagrave in MEG

HOW DOES MULTIPLE SCLEROSIS AFFECT THE BRAIN?

When Donna Seagrave was diagnosed with multiple sclerosis more than two decades ago, there were no approved disease-modifying drugs for the condition.

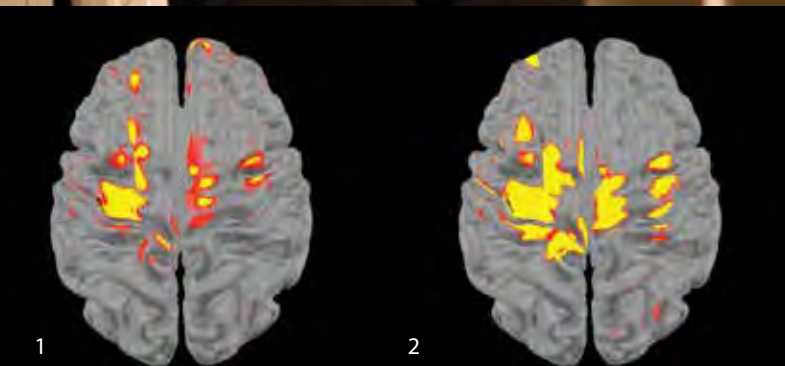
"I experienced my first episode in 1991 – numbness in my right leg," she says, "but I wasn't diagnosed until a year later when the right side of my body went to mush."

Seagrave, who recently started a new medication that enabled her to walk for the first time in 15 years, believes in the value of research. "Research is the thing that's going to help us stop MS in its tracks," she says. "There used to be no hope for people with this disease. There are now 10 drugs that can treat it."

She is participating in a study led by Dr. Corey Ford, who has been studying and treating the disease for more than two decades. Ford says MS patients develop brain lesions that can cause memory loss, weakness or vision problems. "Usually, MS begins with 'attacks' of a symptom," he says. "Then, over weeks or months, it gets better. If they don't recover completely, they may be left with a disability that could accumulate over time."

New neuroimaging technologies like magnetoencephalography (MEG) have greatly enhanced researchers' ability to understand how MS affects the brain. "MEG shows both where the brain is activated and the timing while a person is performing a specific task," Ford says. "It will help us answer many questions, like, 'When did some part of the brain turn on? When did it communicate? Is it slow? Is it abnormal? Is it improving?'"

Regaining the ability to walk has given Seagrave renewed optimism. "It was very exciting for me," she says. "I always thought MS was a downhill trajectory. Instead, I'm improving. I think I'll really have a future."



The MEG shows, in real time, which parts of the brain respond to various tasks. Yellow indicates greater activity, for longer periods of time. The brain responds in the same way to simple tasks for people with and without MS (1). When presented with a complex task, the brains of healthy people respond normally (1); however, people with MS require more brain activity for longer amounts of time (2).



Principal Investigator

Corey C. Ford, MD, PhD, Senior Associate Dean, Research; Director, MS Specialty Clinic; Professor, Department of Neurology

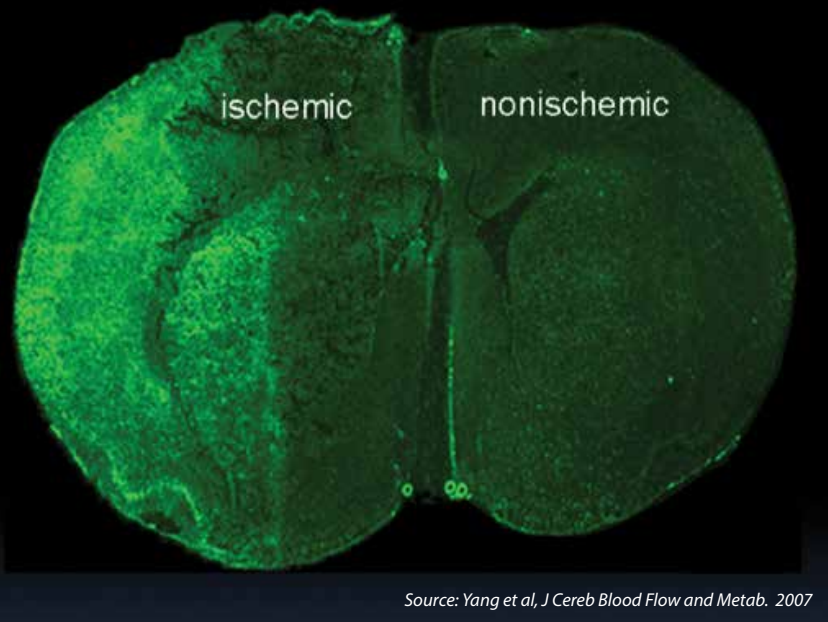
Grant Name

Impaired Interhemispheric Relationships in MS: Evaluation by MEG, EEG, and MRI-Remediation by Dalfampridine

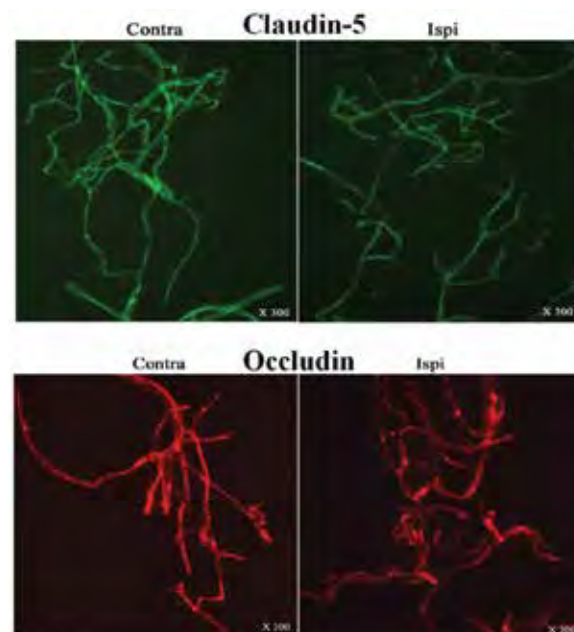
Grantor

Acorda Therapeutics, Inc.

Featured on **HSC**TV
<http://vimeo.com/hsctv/ford>



Source: Yang et al, J Cereb Blood Flow and Metab. 2007



Cerebral microvessels. Source: J. Liu

CAN WE EXPAND THE WINDOW OF OPPORTUNITY FOR TREATING STROKE PATIENTS?

Time lost is brain lost, when it comes to stroke. That's why Jim Liu and his research team are looking for ways to expand the three-hour window after a stroke's onset to administer the most effective treatment to protect brain tissue.

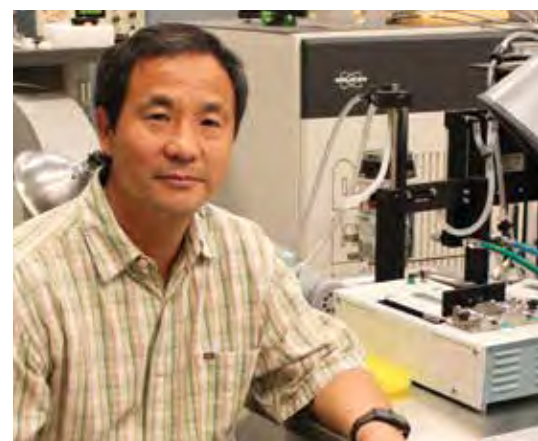
"Stroke activates a molecular process that degrades the blood vessel – what we call the blood-brain barrier," Liu explains. An FDA-approved drug called tissue plasminogen activator (tPA) counteracts ischemic stroke by dissolving the clot that caused the attack, so blood can resume flowing into the brain.

However, if a patient gets to the hospital after three hours, tPA can't be used, because it may cause the blood vessel to become leaky and hemorrhage, Liu says. So while tPA is very effective in preventing permanent damage, the majority of patients don't get to the hospital in time to receive it.

The window for tPA effectiveness is more variable under some circumstances, Liu says. Some patients could safely receive the drug up to six hours after a stroke, but doctors err on the side of caution because there is currently no way to know the actual progression of blood vessel damage.

Liu and his team are developing a kit that can be used by any hospital to immediately evaluate vessel health. Expanding the number of patients treated with tPA could dramatically alter the impact of stroke – the fourth leading cause of death and a major cause of adult disability.

"This project is derived from a network of expertise," Liu says. "We are now transforming this knowledge into something tangible and clinically useful that can touch peoples' lives."



Principal Investigator

Ke Jian Jim Liu, PhD, Professor of Pharmaceutical Sciences, College of Pharmacy

Grant Name

Blood Biomarker for Early Blood-Brain Barrier Disruption in Ischemic Stroke

Grantor

Accelera Diagnostics

HOW CAN WE IMPROVE TREATMENT FOR OVARIAN CANCER?

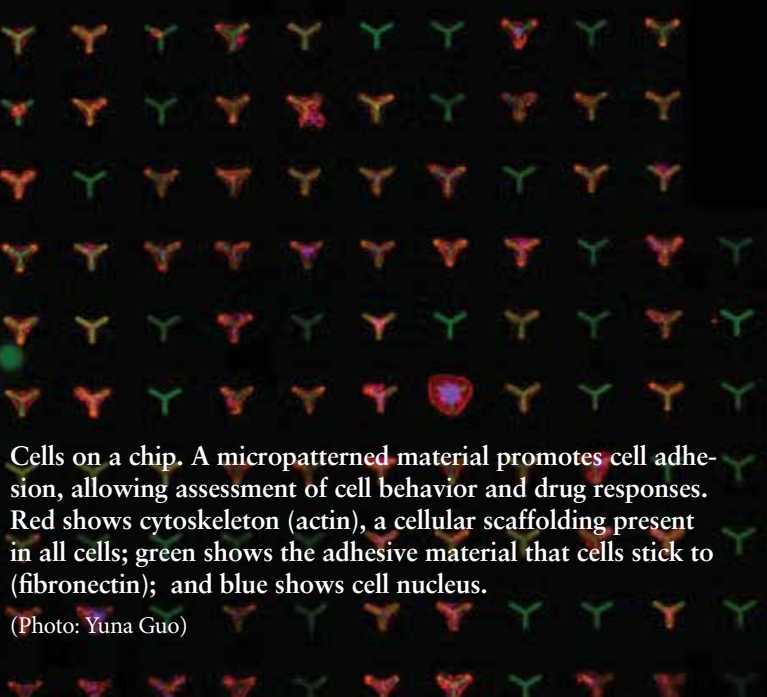
Ovarian cancer is the most deadly gynecologic cancer, often spreading throughout the body before being diagnosed. Moreover, 70 to 80 percent of women who undergo surgery and chemotherapy will experience a recurrence within a year.

HSC researchers Angela Wandinger-Ness and Laurie Hudson have discovered a potential therapy for ovarian cancer in the form of ketorolac, a commonly used anti-inflammatory drug with chemical properties similar to aspirin or ibuprofen.

They study GTPases, enzymes that act like switches to turn cellular activity on and off. "Sometimes the switch can go awry, turning on or off inappropriately, and result in disease," explains Wandinger-Ness. "With ovarian cancer, the switch is always on." In the lab, she says, ketorolac acts as a monkey wrench, gumming up the switch and hindering the spread of ovarian cancer.

They are now working with gynecologic oncologist Dr. Carolyn Muller on a preliminary trial testing the drug's effects in ovarian cancer patients. "The beauty of ketorolac is that its indication is post-operative pain management," says Muller, who administers the drug to women who have just undergone ovarian tumor surgery. "So, while giving the drug for its intended purpose, we have the ability to see how it's distributed and its effects."

The team hopes this study will soon lead to a new clinical trial to delay or stop the recurrence of ovarian cancer. "This project is a result of the highly collaborative environment at UNM," Hudson says. The study's successes so far include the development of new research paradigms that might lead to cures for other diseases, she says. "The richness of the ideas and the ability to problem-solve in a different way has been so rewarding."



Cells on a chip. A micropatterned material promotes cell adhesion, allowing assessment of cell behavior and drug responses. Red shows cytoskeleton (actin), a cellular scaffolding present in all cells; green shows the adhesive material that cells stick to (fibronectin); and blue shows cell nucleus.

(Photo: Yuna Guo)



Drs. Carolyn Muller, Laurie Hudson, and Angela Wandinger-Ness

Principal Investigators

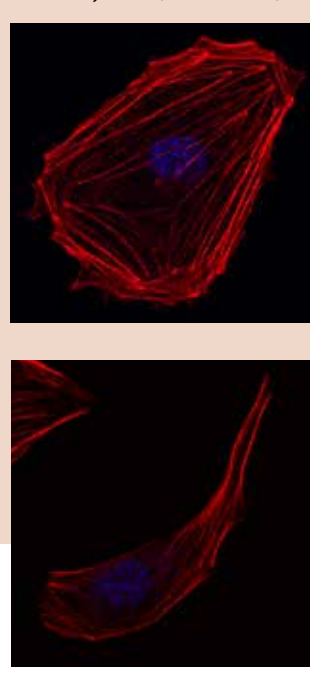
Laurie Hudson, PhD, Professor of Pharmaceutical Sciences, College of Pharmacy; Angela Wandinger-Ness, PhD, Professor of Pathology, School of Medicine

Grant Name

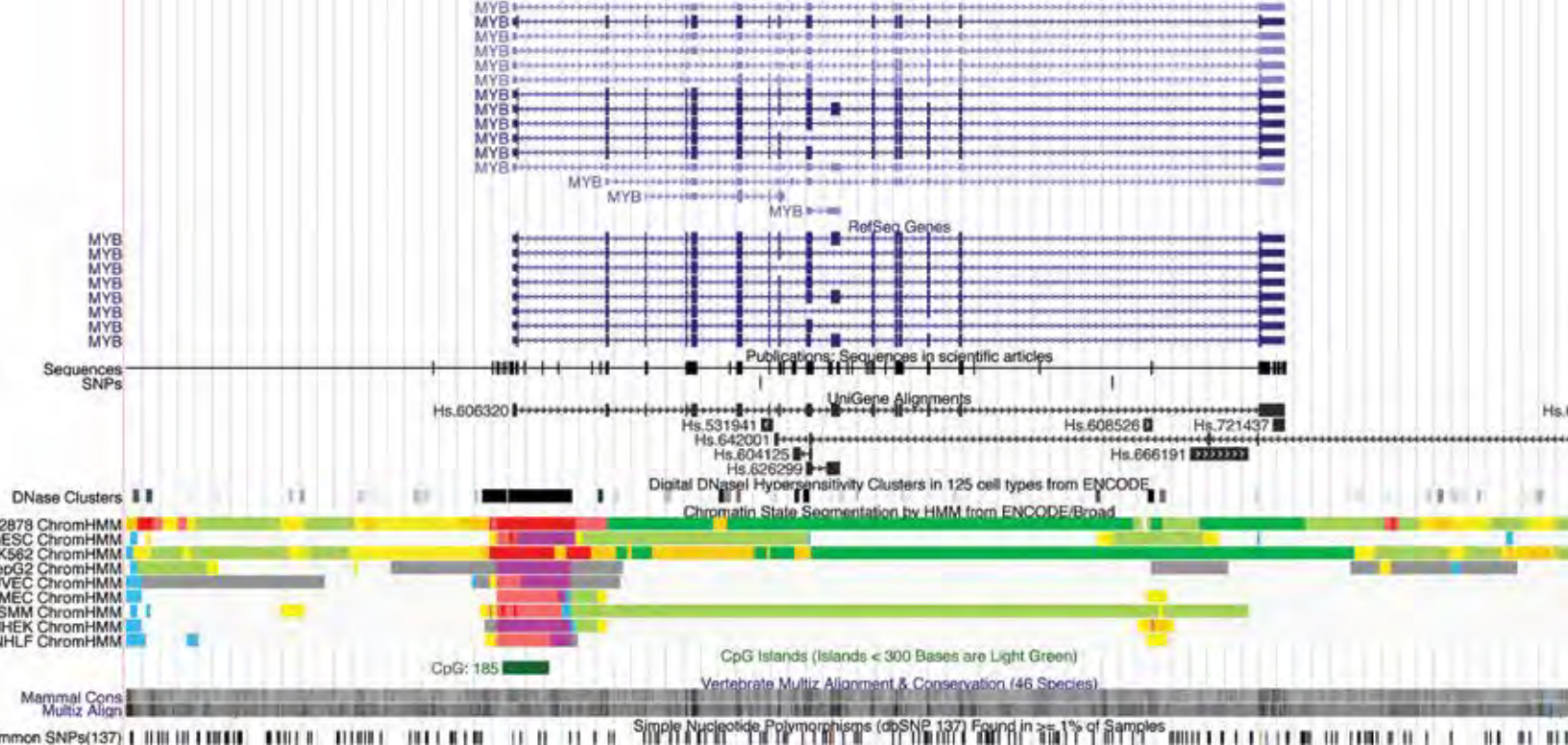
Inhibition of Small GTPases as a Novel Therapeutic Approach in Ovarian Cancer

Grantors

Congressionally Directed Medical Research Programs, Department of Defense



Evaluating drug effects. Red shows the cytoskeleton (actin) and blue shows nucleus. Top panel: Without drug treatment, cells spread. Bottom panel: With drug treatment, cells are less capable of adhesion and spreading. (Photo: Geneva Phillips)



Top (blue): Human MYB gene on chromosome 6 and all variants expressed through alternative RNA splicing. Bottom (colorful): Epigenetic marks associated with gene regulation.

WHAT MAKES CANCER CELLS DIFFERENT?

Forty-eight thousand Americans will be diagnosed with leukemia this year, and nearly half will succumb to the disease. Finding better treatments requires a deeper understanding of what goes wrong in leukemia cells, then using that information to design precision therapies.

“The human genome is complicated – even more so in leukemia cells than normal cells,” explains molecular geneticist Scott Ness. “That’s what we’re trying to understand.”

Ness and his team are studying human genes in much greater detail than ever before. They’re learning more about how genes produce intermediate molecules called RNAs, which through a complicated process called alternative RNA splicing, can cause dangerous mutations.

“Leukemias have more alternative RNA splicing and make many more types of RNA than normal cells,” Ness says. “We’re trying to understand what goes wrong with this process and how this alternative splicing is important to the disease process.”

This is an ambitious project, with a large team of investigators performing genome sequencing and advanced data analysis. “This alternative splicing could just be a

side effect of being a leukemia cell,” Ness says, “or it could be a fundamental part of what makes a leukemia cell bad.” If it isn’t just a side effect, there might be potential benefits for leukemia patients, Ness says. Cancer could be caught sooner, and new drugs could be developed that target this process before it spins out of control.



Principal Investigator

Scott A. Ness, PhD, Professor, Internal Medicine, Section of Molecular Medicine; Associate Director, UNM Cancer Center

Grant Name

National Cancer Institute Provocative Questions Initiative: Alternative RNA Splicing and Variant Protein Products in Leukemia Outcome

Grantor

NIH – National Cancer Institute

IS THERE A WAY TO REVERSE VISION LOSS IN DIABETES?

Leo Gonzales sits down for what appears to be an ordinary eye exam. Dr. Arup Das asks him to look up, then down and asks how his eye is doing. Then, as Gonzales reclines on a bed, Das leans over with a syringe and carefully delivers an injection directly into his right eye.

Diagnosed with diabetes in 1995, Gonzales moved to Albuquerque from Roswell a year ago to be close to Das for regular treatments. He couldn't have placed himself in better hands. Chief ophthalmologist Das and basic scientist Paul McGuire are partnering to find a cure for blindness caused by diabetic retinopathy, which threatens the 19.7 million Americans (and 150,000 New Mexicans) living with diabetes.

Ten to 15 years after a diabetes diagnosis, patients develop retinopathy, which causes blood vessels to leak into the light-sensitive central rear portion of the eye, called the macula. This causes macular edema (swelling) and gradual vision loss.



Principal Investigator

Arup Das, MD, PhD, Chief, Ophthalmology Division; Regents Professor, Ophthalmology, Cell Biology & Physiology; Vice Chairman of Research, Department of Surgery

Co-Investigator Paul McGuire, PhD, Professor, Cell Biology & Physiology

Grant Name

Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy

Grantor

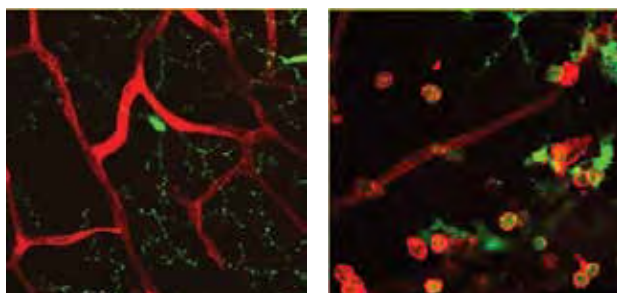
NIH – National Eye Institute



Current treatment options include injections or laser therapy. Gonzales has received both within the past year. "The results are tremendous," he says. "My right eye couldn't see anything, and now I can see about 10 feet in front of me."

The injectable drug targets VEGF, one of several molecules in the eye that contributes to this leakage. "VEGF has been extensively studied, but isn't the optimal target for treatment," Das explains. "The effect of these drugs is transient. Some patients you have to inject for months, years even. If you stop injections, leakage may come back. Many don't respond to treatment at all and the edema remains persistent."

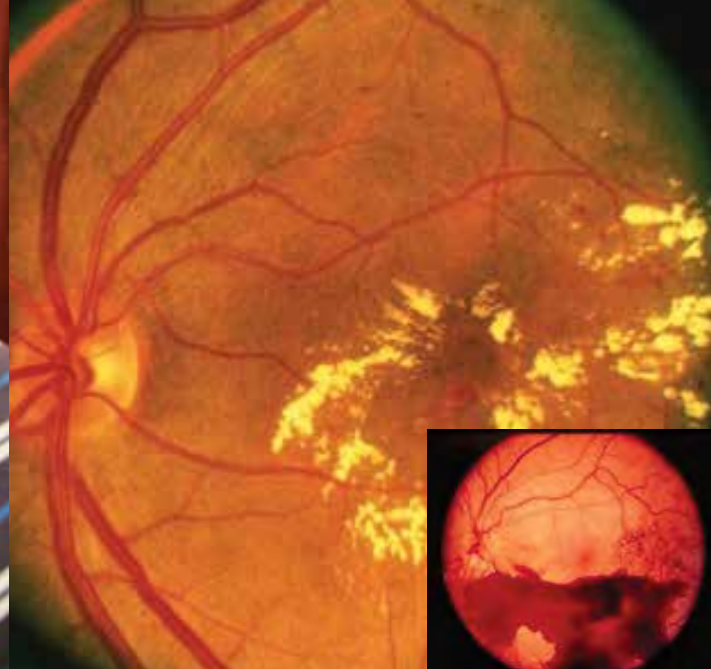
McGuire says he and Das have found great advantages in their partnership of 15 years. "Das brings the clinical view," he says. "I bring in basic science. Together, we move forward more quickly." The pair discovered other molecules play a prominent role in diabetic retinopathy, one of which is CCL-2, which attracts white blood cells that infiltrate the retina.



(Left) The blood vessels of the retina in a non-diabetic subject are stained red. There are no white blood cells in the retina. (Right) White blood cells (monocytes) infiltrate the retina in a diabetic subject, resulting in inflammation. These cells are round, and stained reddish green or green.



Das and Gonzales



"Can we target this monocyte 'trafficking' into the retina in early stages of diabetes?" Das asks. "If we can prevent this influx of white blood cells, maybe we can prevent the cascade of inflammation and vessel leakage completely."

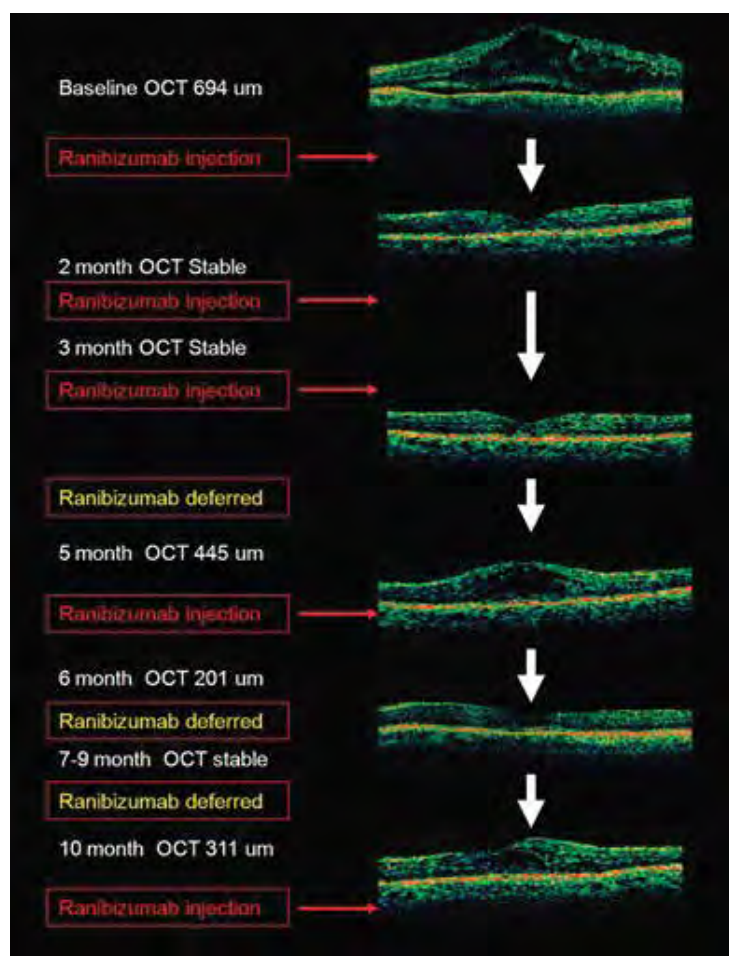
Unfortunately, a substantial number of patients do not receive appropriate eye care, especially in rural areas. One way to tackle this problem is through telemedicine, which Das and colleagues have begun using to expand retinopathy screening and treatment for patients throughout the state.

Meanwhile, Das sees a pressing need for new drug interventions. "I get frustrated," he says. "I keep injecting patients. Some respond and some don't. I'm looking forward to a day when there is a drug that's effective that everyone will respond to, and I can see patients get better again."

While Das and McGuire seek new treatments, Das offers some wise advice: "The most important way to prevent blindness is through diet and controlling blood sugar, blood pressure and blood cholesterol. If a patient doesn't control their diabetes, treatments will be ineffective."

Gonzales agrees. "If you're diagnosed with diabetes, get on a strict diet immediately," he says. "I never did that. I thought meds would take care of my diabetes, but here I am. Now I'm taking care of myself and eating well, and my eyes are improving."

(Left) In diabetes, the blood vessels in the retina leak resulting in edema of the macula, and causing distortion and central vision loss. (Inset) New vessels in the retina lead to hemorrhage in the eye that results in floaters and severe vision loss.



Featured on **HSC TV**
<http://vimeo.com/hsctv/das>



Raj Shah with members of the Zuni Health Initiative

HOW DO I PREVENT DIALYSIS IF I HAVE DIABETES?

Picture yourself sitting for four hours, watching your blood circulate out and back into your arm. Imagine doing this three days a week . . . for the rest of your life. Chronic kidney disease, a near certainty for people with untreated diabetes, commits sufferers to a lifetime of dialysis.

At Zuni Pueblo, where kidney disease is a serious health challenge, Raj Shah has spent the last 16 years helping people avoid that fate through community-based prevention in collaboration with the Zuni tribal administration, Indian Health Services and other Zuni health programs.

Now, he is training health representatives to monitor diabetes and kidney disease patients in their homes and promote healthier dietary and lifestyle choices. "These representatives are Zuni, understand the culture, and speak the language," Shah says. "Participants

will choose their own treatment options and the representatives will help them achieve their goals."

Zunis are 18.5 times more likely to develop chronic kidney disease than Caucasians and 5.3 times more likely than other Native Americans. Once Zunis develop kidney disease, they reach the point of needing dialysis much faster. And dialysis is the only option – it's against traditional beliefs to receive a kidney transplant.

Eileen Lois Tzunie joined Shah's program four years ago when she was diagnosed with diabetes. "I learned not to eat junk food and sweets," she says. "I also exercise as much as possible and take my medication. Right now, I'm doing good."

While there is no absolute solution to avoid dialysis, Shah says, if you do everything possible to be healthy, you will likely be able to live a longer, happier life.



Principal Investigator

Vallabh (Raj) Shah, PhD, FASN,
Professor and Senior Fellow,
NM-CARES-HD, Department of
Biochemistry and Internal Medicine

Grant Name

ACA Reducing Health Disparity
in Chronic Kidney Disease in Zuni
Indians

Grantor

Patient-Centered Outcomes
Research Institute (PCORI)

**"AMA HON ANSAM'ONA
DOBINDE TSE'MAKWINN
ASHANNA, DEMŁA A:HOI HON
YANSATDUNAP'DU."**

(English: "Let's have a vision to help all human beings!")

Featured on **HSC**TV
<http://vimeo.com/hsctv/shah>



WHAT ARE THE LONG-TERM EFFECTS OF ASTHMA MEDICATION ON KIDS?

To understand what an asthma attack feels like, grab a straw and try to breathe through it. Fortunately, there are potent drugs that can help control symptoms, but until recently, little was known about the long-term health effects when used by children.

Hengameh Raissy, who took part in the largest and longest prospective asthma study ever conducted, has found that these inhaled corticosteroids permanently stunted growth, leaving patients nearly half an inch shorter on average as adults.

Raissy recently completed UNM's component of the Childhood Asthma Management Program (CAMP), which began in 1993 with approximately 1,000 children in the US and Canada, ages 5 to 12. These children received inhaled corticosteroids or a placebo for four years. The remainder of the study period consisted of follow-ups and observation.

The study yielded 140 scholarly articles regarding environmental and genetic factors of asthma, which is the most common chronic health condition in children. Investigators examined how corticosteroids affect lung growth, eyes, bone density and more. A recent *New England Journal of Medicine* article from the study focused on height. "We knew one side effect of corticosteroids was growth suppression," Raissy says, "but it was thought a person would eventually 'catch up.' We found there was no 'catch up,' and patients were an average 1.1 centimeters shorter as adults."

However, participants did experience more symptom-free days. "There was a 40 percent decrease both

in hospitalization and urgent care visits," Raissy says. "If inhaled corticosteroids can prevent asthma symptoms, it's worth being 1.1 centimeters shorter."

Marisa Wootton, who participated in CAMP from the age of 5 to 24, says her asthma was much worse when she was younger. "My asthma is exercise induced, but I'm now able to control it," she says. Now a soccer coach, she says she recognizes symptoms of asthma in the kids she coaches. "I teach them how to regulate their breathing so they don't have an attack."

Principal Investigator

Hengameh Raissy, PharmD,
Associate Director, Clinical
and Translational Sciences
Center; School of Medicine,
Department of Pediatrics,
Division of Pulmonology

Grant Name

CAMP Continuation Study
(Phase III)

Grantor

NIH – National Heart, Lung
and Blood Institute





HOW CAN WE BETTER PROTECT CHILDREN WITH CHRONIC KIDNEY DISEASE?

Fifteen-year-old Adam Myers loves to play basketball. Left to his own devices, in the summer months he will literally play all day and all night, until his mom makes him come inside and go to bed.

But eight years ago, Adam became seriously ill and was admitted to UNM's Children's Hospital with a rare form of chronic kidney disease related to immune-system malfunction. That's when he met Craig Wong, a UNM kidney specialist who has been leading an international study of 1,400 young kidney patients like Adam.

"We want to find new cures and therapies for the kids I see in my clinic – that's what really drives me to do this science," says Wong. "It's hard to say to a parent, 'Your child has chronic kidney disease and their kidneys are going to fail. We can slow it down, but eventually it's going to lead to kidney failure and we'll have to talk about dialysis and transplant.'"

Adam was only 7 when he inexplicably fell ill. "At first, doctors kept saying that he just had a virus," remembers his mother, Delilah Myers. "But then he got worse – high fever, sore throat and really bad pain in his leg."

Most children with kidney disease have it from birth. Sometimes the disease develops spontaneously, as it did for Adam, or is the result of an injury to the kidney. Currently, there is no way to stop its progression once the kidney is damaged. Adam and Delilah hope that by participating in research, future children with chronic kidney disease will have more options.

Under Wong's direction, UNM is part of Chronic Kidney Disease in Children (CKiD), a nationwide network that seeks to more fully understand pediatric kidney failure. Researchers are studying how chronic kidney disease affects the heart, growth and neurocognitive function to improve care and develop new therapies. The CKiD study



Principal Investigator
Craig Wong, MD, MPH,
Associate Professor, Department
of Pediatrics; Division Chief of
Pediatric Nephrology

Grant Name
Chronic Kidney Disease in
Children (CKiD); Pediatric
Investigation of Genetic Factors
for Renal Progression (PediGFR)

Grantor
NIH



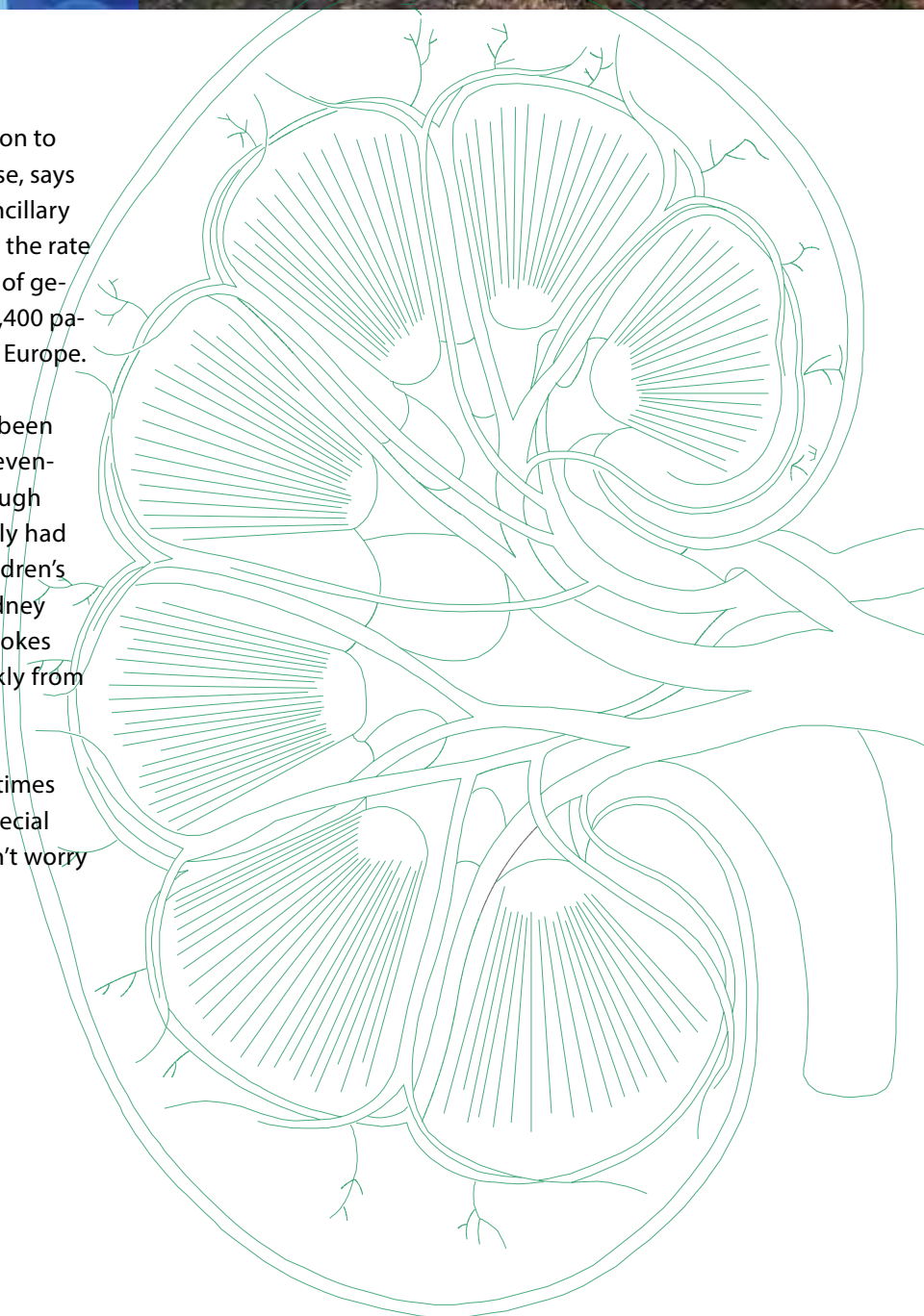
Adam Myers and family at Disney World during a trip sponsored by the Make-A-Wish Foundation

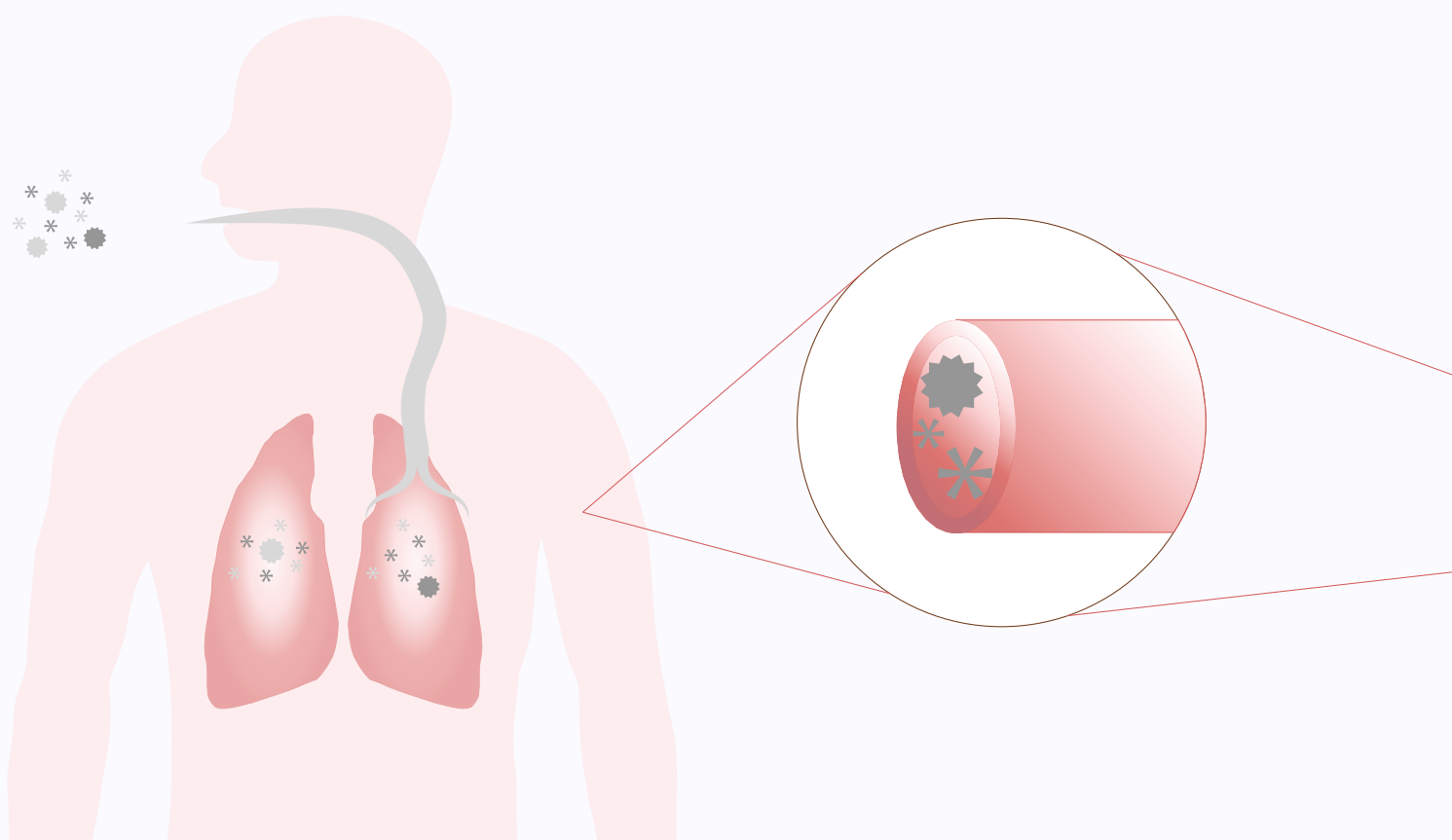


has already resulted in very important information to help improve care of children with kidney disease, says Wong, who is also principal investigator of an ancillary study to identify genetic factors associated with the rate of kidney function decline. To conduct this type of genomic analysis, he coordinated recruitment of 1,400 patients from 55 clinics in the U.S. and 33 clinics in Europe.

Adam, his family and his team of doctors have been battling his kidney disease for many years. He eventually needed treatment for kidney failure through the UNM Pediatric Dialysis program and recently had a kidney transplant performed at the UNM Children's Hospital in collaboration with the hospital's Kidney Transplant Services. Delilah is the donor – she jokes now about how he recovered much more quickly from the surgery than she did.

Adam's enthusiasm for playing basketball sometimes makes her and his coach nervous (he wears a special belt to protect his new kidney), but Adam doesn't worry much or let the disease get in his way.





ARE LUNGS A PATHWAY TO CARDIOVASCULAR DISEASE?

Every day, each of us breathes in dangerous toxins like carbon monoxide, ground-level ozone, lead, nitrogen dioxide, particulate matter and sulfur dioxide. That troubles Matthew Campen, who's been studying such common pollutants as engine exhaust and wood, coal and tobacco smoke since 1991.

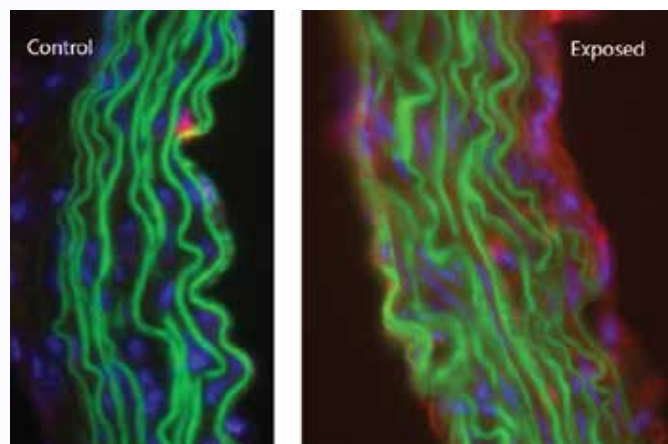
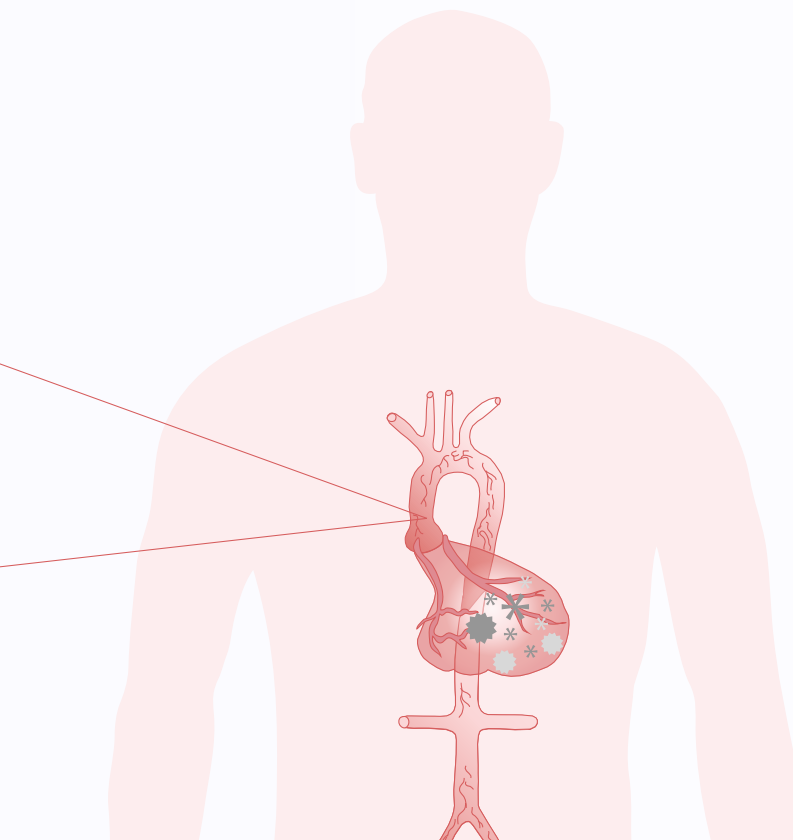
Campen knows these toxins cause serious damage to the human body beyond the lungs. "Air pollution is associated not just with respiratory diseases, but also cardiovascular disease," he says. "Epidemiological studies have long shown that there are increased cardiovascular deaths on bad air pollution days. But it's unclear why something you breathe in – that doesn't really physically get past the lungs – causes vascular disease."

So Campen and his team are digging deeper. "From a public health standpoint, it's important that we learn more about how the everyday pollutants we're all exposed to affect us and remain aware that highway-related emissions are still a significant health problem," he says.

Campen suspects that when we inhale air pollutants, potent particulates and gases somehow alter our blood chemistry, causing vascular inflammation. His team is investigating the biological pathways these toxins exploit to access the vascular system, and ultimately how they lead to cardiovascular insult. "We're taking what we're learning from air pollution and lung disease and linking it back to coronary artery disease," he explains.

"I'm a discovery person – I look for the 'eureka' moment," Campen says. "I live for designing studies where we have a hypothesis, we do an experiment and we prove it. Our biggest challenge is to ensure that what we see at the molecular level is actually something that translates to humans."

Studies have shown that when an air pollutant bypasses the lungs to reach a blood vessel, it's not as damaging as when it is inhaled, Campen says. "We've also discovered a blood-borne signal originating in the lung – but found outside of the lung – that causes inflammation in blood vessels and the brain. So there's something essential to various pollutants entering the lungs first."



Cross-sectional slices of aortas reveal an upregulation of matrix metalloproteinase-9 (MMP9), shown in red, following exposure to a combination of gasoline and diesel emissions. MMP9 is an enzyme known to cause the growth of atherosclerotic plaques, which are central to major heart diseases and stroke. Green and blue fluorescence represent extracellular matrix and nuclei, respectively.

Campen believes that damaged proteins or fragments of proteins he calls “molecular shrapnel” are formed following exposure to toxic pollutants. When they breach the lungs and enter the blood stream, the cells lining the blood vessels become irritated. “They think the molecular shrapnel is a sign of damage,” he says, “so they respond appropriately with inflammation, which can contribute to long-term heart disease.”

No single chemical in air pollution appears to be responsible, Campen says. “When gaseous and particulate portions of exhaust combine, gases adhere to particles, which seems to make it more toxic to the cardiovascular system,” he says. “We need to know which pollutants are most potent, how they affect other parts of the body, and which people are most susceptible.”

The good news, Campen says, is that the health risks from air pollution can be reduced. “Try not to locate or exercise in industrial areas or near transportation corridors,” he suggests. Genetics and nutrition also play a role. “We think that polyunsaturated fats already present in the lungs help protect the lungs and body from generating these ‘molecular shrapnel’ – these fragments of proteins,” he says. “So a diet of polyunsaturated fats is good for our lungs. Vitamin C also is a great defense for your lungs.”



Principal Investigator
Matthew Campen, PhD,
Associate Professor,
Pharmaceutical Sciences,
UNM College of Pharmacy

Grant Name
Enhancement of Coronary
Constriction by Organic Air
Toxics

Grantor
National Institute of
Environmental Health Sciences



Photo: Malcolm Benally

WHAT ARE THE LONG-TERM EFFECTS OF URANIUM MINING ON NAVAJO PEOPLE?

From 1944 to 1986, some four million tons of uranium ore were mined within the Navajo Nation, leaving behind more than 500 abandoned mines, 1,100 abandoned waste sites and a legacy of environmental contamination. UNM researcher Johnnye Lewis is leading an investigation of its generational impacts on the health of Navajo mothers and babies.

Lewis previously has shown a link between uranium-contaminated water and soil and high rates of kidney disease in Navajo communities. With the Navajo Birth Cohort Study, she is examining whether contamination relates to reproductive outcomes, congenital disorders and developmental disabilities. "The Navajo Birth Cohort Study developed out of these earlier initiatives because people wanted to know how this contamination is affecting their children," Lewis says.

She and her team are recruiting 1,500 mother/baby pairs from six regional medical centers in the Navajo Nation. Pregnant women provide urine and blood samples and their babies are later monitored for a year to assess growth and developmental progress. Study coordinators also conduct home environmental assessments with families and provide referrals for such needs as prenatal care and developmental disability services.

The study is a collaboration between the Navajo Nation, federal agencies, Navajo community health workers and UNM researchers. Anna Rondon, a project manager with the Navajo Division of Health, believes that the study is a critical step in building research capacity and influencing health policy.

"This project is very historic for Navajo and indigenous people across the world," she says. "Navajo women are now conducting research, and health providers are asking questions about environmental contaminants. We want to find healing. We want to find the monster and rename it, and obliterate the diseases from uranium mining."



Principal Investigator
Johnnye Lewis, PhD,
Research Professor
of Pharmaceutical
Sciences, College of
Pharmacy

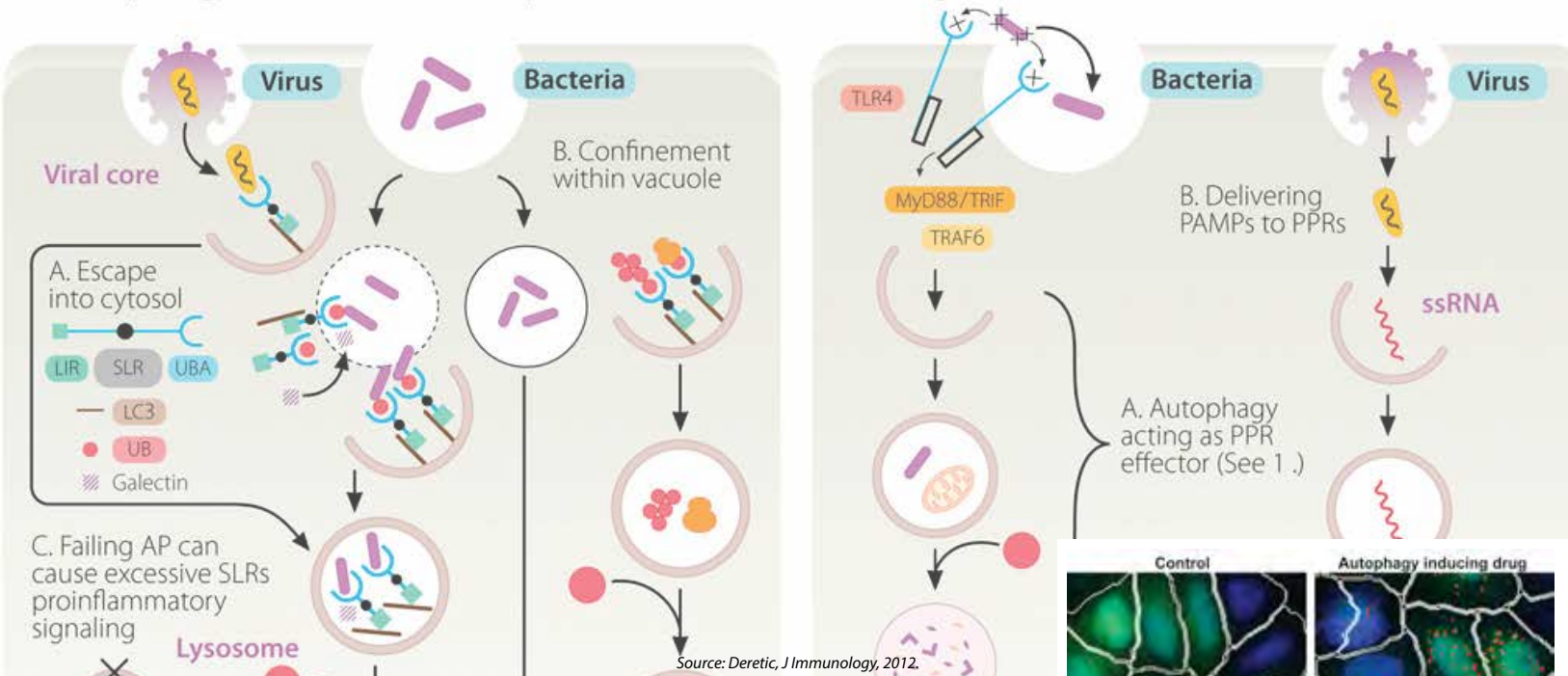
Grant Name

A Prospective Birth Cohort Study
Involving Uranium Exposure in the
Navajo Nation

Grantor

HHS – Centers for Disease Control
and Prevention





HOW CAN WE POWER-UP OUR IMMUNE SYSTEMS FROM THE INSIDE?

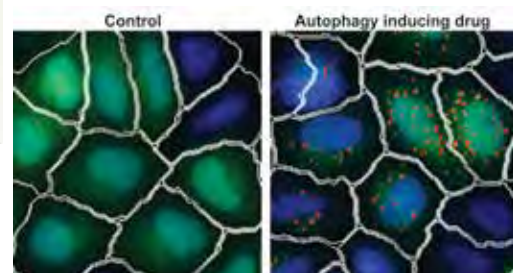
Autophagy is nature's way of cleaning house. Tiny, autonomous vacuum cleaners zip around inside a cell, ingesting bits and pieces of worn-out proteins, malfunctioning parts and invading microorganisms. Scientists have begun to decipher this extraordinary process, and are coming to understand how vital autophagy is to human health.

Vojo Deretic and postdoctoral fellows Michael Mandell and Santosh Chauhan are trying to harness the power of this innate immunity as a therapy for a variety of diseases. Deretic and his team have launched interrelated projects to discover how to encourage autophagy to treat people with dual HIV and *Mycobacterium tuberculosis* infections. It's a deadly disease combination, because people with weakened immune systems are more vulnerable to TB's most severe effects.

TB is the leading cause of death among people living with HIV, with co-infection most prevalent in Sub-Saharan Africa. Emerging strains of drug-resistant TB are on the rise, further reducing the options available to treat these patients. Mandell and Chauhan have isolated autophagy-specific proteins and molecules that are part of a complex intracellular communication system responsible for making things happen inside the cell.

With this new understanding, the team is using high-tech molecular equipment and computational tools to search for FDA-approved drugs that might encourage autophagy to fight infection in a clinical setting.

"Every pathogen has its own story – they become so specialized," says Deretic, who began his research career in developmental biology studying sea urchins. "With autophagy, what you have is a general answer to many different questions. That's the beauty of it for me."



Chauhan, Deretic, Mandell and the "Pac Man" pillow

Principal Investigator

Vojo Deretic, PhD, Chair and Professor, Department of Molecular Genetics & Microbiology

Grant Name

Pattern Recognition Receptors and Autophagy in *Mycobacterium Tuberculosis* Control in AIDS; Autophagy as a Cell-Autonomous Mechanism of HIV Control (Phase II GCE)

Grantors

NIH - NIH/National Institute of Allergy and Infectious Diseases; Bill and Melinda Gates Foundation

Featured on **HSC TV**
<http://vimeo.com/hsctv/deretic>



CAN WE FIND NEW USES FOR DRUGS TO IMPROVE OUR HEALTH?

Tudor Oprea spends his days searching for needles in haystacks. As futile as that sounds, he loves the challenge and teamwork that come with seeking elusive new applications for existing medicines.

“On average, it takes about 10 to 15 years and up to \$2 billion to put a new drug on the market,” Oprea says. “Academia can’t afford that, so we use ingenuity and adaptive performance to seek new uses for already approved drugs.”

As chief informaticist for the UNM Center for Molecular Discovery, Oprea leads a team that manages the hundreds of terabytes of data accumulated from chemical library screening the center has conducted over the past decade. His primary data source is the high-throughput flow cytometer, invented by center director Dr. Larry Sklar. This advanced instrument runs thousands of cytometric assays per hour in search of a yet-unidentified puzzle piece that might reveal new treatments for cancers, infections or other diseases.

Oprea’s team also is using virtual screening, a computer-based method of formulating hypotheses, to focus on products that have been on pharmacy and even grocery store shelves for years.

“We’re covering about 50,000 FDA-approved drugs, which contain about 1,600 active pharmaceutical ingredients,” Oprea says. “We’re rapidly sifting through immense data sets, evaluating their impact on cells – and even whole biological systems – and comparing that information with knowledge distilled from indications, off-label prescription use and adverse event reports.”

Housed in the newly renovated Innovation, Discovery and Training Complex, Oprea’s computers are constantly humming as he and his team continue the search for new uses for already approved therapeutics, awaiting the flash of insight that comes with discovery.

Principal Investigator

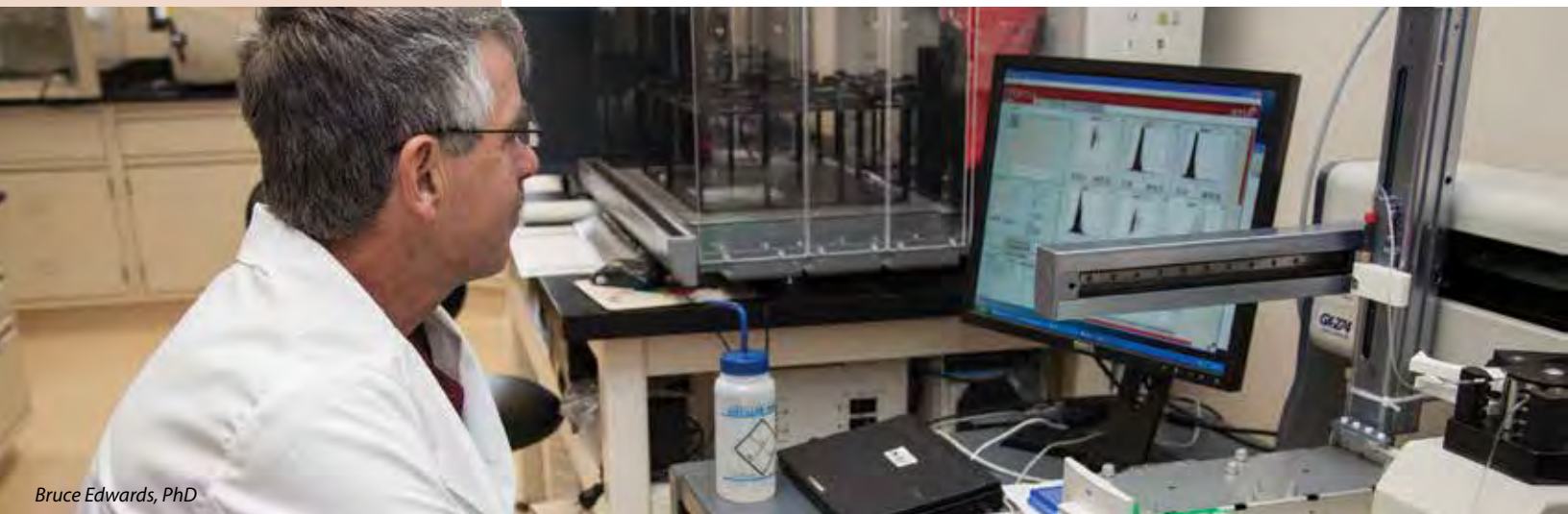
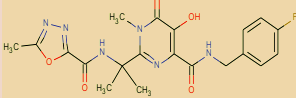
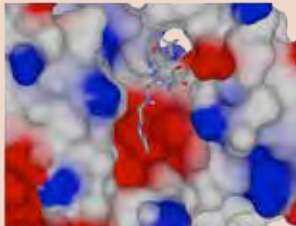
Tudor I. Oprea, MD, PhD, Professor,
Department of Biochemistry &
Molecular Biology; Chief, Division of
Biocomputing

Grant Name

Chemical Pattern Detection and
Visualization in Biological Networks

Grantor

NIH - National Institute of General
Medical Sciences



Bruce Edwards, PhD



IS NEW MEXICO PREPARED TO CARE FOR OUR MILITARY VETERANS?

An innovative new partnership between UNM's College of Nursing and the New Mexico Veterans Affairs Health Care System will help meet the health care needs of the state's veterans for decades to come.

The College was one of only six schools chosen to participate in the prestigious Veterans Affairs Nursing Academy Partnership (VANAP) program, which will fund an expansion of the nursing workforce, from faculty to students to practitioners.

It will allow the College to increase undergraduate nursing enrollment, faculty and clinical placement with an emphasis on the bachelor of science in nursing degree (BSN). An additional eight students will be admitted each fall, and 16 additional students each spring over the next four years, for a total of 96 new nurses funded by the grant.

"Veterans comprise nearly 20 percent of New Mexico's population," says Nancy Morton, undergraduate program director in the College and VANAP co-director. "This partnership will significantly advance care for our veterans statewide, as we develop clinical sites to prepare nurses for the future of health care delivery."

"Educating a high-quality workforce in veteran-centric care is a challenge," adds Cynthia Nuttall, RN, New Mexico VA Health Care System associate chief of nursing for professional practice and VANAP co-director. "This grant allows us to increase our BSN-prepared nurses throughout New Mexico who are knowledgeable regarding veterans' specific health care needs."



Cynthia Nuttall and Nancy Morton

Principal Investigator

Nancy Morton, MS, RN, College of Nursing

Grant Name

Veterans Affairs Nursing Academy Partnership (VANAP) Program

Grantor

US Veterans Administration



WHAT CAN OUR MOUTHS TELL US ABOUT OUR BODIES?

Poor oral health has been linked to a host of health problems, such as heart disease and diabetes, yet too many New Mexicans fail to receive routine preventive dental care.

UNM and community health providers have teamed up to address this problem by incorporating oral health into a team-based primary care setting.



Program team: Barbara Overman, PhD, CNM; Christine Cogil, FNP-BC; Rick Adesso, Executive Director, El Pueblo Health Services; Peter Jensen, DDS, MS, MPH

Principal Investigator

Nancy Ridenour, PhD, RN, APRN, BC, FAAN, Professor and Dean, College of Nursing

Grant Name

Innovation in Primary Care Oral Health: Interprofessional Team Practice/Model

Grantor

ACA – El Pueblo Health Service

Patients receiving an exam at the El Pueblo Health Services Clinic in Bernalillo, NM, are seen by a primary care physician, a dentist and a nurse practitioner, says Peter Jensen, director of UNM's Advanced Education in General Dentistry residency program.

"We're finding it's a good dynamic to have all of the practitioners in the room," Jensen says. "We're really starting to feed off one another as we focus on wellness checks for diabetics, pregnant moms and kids."

The program, implemented with the help of a grant and faculty from the College of Nursing and the School of Medicine's Department of Dental Medicine, relies on CAMBRA (Carries Management by Risk Assessment), a tool dentists use to assess cavity and gum disease risk.

"CAMBRA is becoming part of our physicals, regular exams, wellness checks and so forth," says Rick Adesso, El Pueblo's executive director. "So we have our primary care physicians and nurse practitioners looking closer for oral health problems."

El Pueblo is a private non-profit clinic in Bernalillo, 15 miles north of Albuquerque. Anyone is eligible to receive services, and no one is denied care due to their inability to pay. "We're not building a dental clinic within a health clinic," says project director Barbara Overman. "This is an effort at integrating two historically independent health care services."

El Pueblo patient Connie Welsh said the experience has been eye-opening. "I'd been going to the emergency room for the pain in my mouth," Welsh says. "I definitely learned more about what's happening, and have been going to Pima Medical Institute for more regular cleanings and work."

Improving New Mexicans' oral health is likely to pay off in the long run. More than 37 percent of the state's third graders have untreated tooth decay, while only 64 percent of state residents have had their teeth cleaned in the past year.

Six months into the grant, this diverse health team has developed an unexpected symbiosis. "This is an exciting approach to improving patients' overall health," Overman says. "We're developing these collegial relationships among professionals of differing disciplines, and we're all expanding our knowledge base. We want to improve our patients' care and train others to do the same. We have an opportunity to put out the best care possible."



The team hopes its work will become a model for rural areas where dental services are in short supply. They're also incorporating it into curricula in the College of Nursing, says Dean Nancy Ridenour, the project's principal investigator. "As frontline practitioners begin to integrate oral care into their services, they'll have yet another part of the body that speaks to patient health," she says.



2013 EXCELLENCE IN RESEARCH AWARDS

The Fifth Annual Research Day Awards Ceremony was held October 16, 2013, in Domenici Center Auditorium. For the Excellence in Research Awards, four colleagues were nominated by their peers and selected by a faculty committee for outstanding research contributions.



Left-to-right: Corey Ford, MD, PhD; Mauricio Tohen, MD; Kathleen Haaland, PhD; Nora Perrone-Bizzozero, PhD; Daniel Savage, PhD; Deborah Helitzer, ScD; Martha Cole McGrew, MD; Lynda Welage, PharmD, FCCP; Pamela Hall, PhD; Hattie Gresham, PhD; Richard Larson, MD, PhD

Award recipients were recognized for their excellence in research in four categories:

BASIC SCIENCE RESEARCH

Nora Perrone-Bizzozero, PhD

POPULATION SCIENCE RESEARCH

Deborah Helitzer, ScD

CLINICAL SCIENCE RESEARCH

Kathleen Haaland, PhD

JUNIOR FACULTY RESEARCH

Pamela Hall, PhD



Past Excellence in Research Award Winners:

2012: Bridget Wilson, PhD; Sanjeev Arora, MD, FACP, FACC; Sarah Lathrop, DVM, PhD; Nikki Jernigan, PhD

2011: Larry Sklar, PhD; David Schade, MD; Johnnye Lewis, PhD; Erin Milligan, PhD

2010: Gary Rosenberg, MD; Melanie Royce, MD; Marianne Berwick, PhD; Diane Lidke, PhD

2009: Eric R. Prossnitz, PhD; Claire F. Verschagen, MD; Sally M. Davis, PhD; Xinyu Zhao, PhD

Bridget Wilson, PhD

Basic Science Research, 2012

Cell biologist Bridget Wilson is motivated by the complexity of cell behavior – how, in her words, “Component *a* interacts with *b* and *c* and *z*.” Her lab is using novel imaging techniques to model cell behavior and understand how cellular-level interactions drive disease processes, like asthma and cancer.

As director of the New Mexico Spatiotemporal Modeling Center (STMC), Wilson is deeply interested in bringing people together from multiple disciplines. “I work with clinicians, computer scientists, mathematicians, engineers and physicists,” says Wilson. “One of the greatest enjoyments for me is to sit in the middle and help to bridge disciplines to get people talking to each other.” She also serves as the director of the Hematologic Malignancies Program at the UNM Cancer Center.

Wilson takes special pleasure in viewing the extraordinary images of cells produced in her lab with electron microscopy and live-cell imaging techniques. “The world that we look at is really beautiful,” she says.



Sanjeev Arora, MD, FACP, FACC

Clinical Science Research, 2012

Growing up in India, Sanjeev Arora traveled with his physician father to remote villages assisting in the government's eradication of smallpox. The poverty and social disparities shocked Arora, who would from that point forward commit his life to making a difference.

Arora, a gastroenterologist and hepatologist, is the force behind Project ECHO, an innovative program that provides specialized medical expertise to people with complex illnesses living in rural areas. New Mexico's challenges in providing health care access to just more than two million people scattered across more than 121,000 square miles drew Arora to UNM from New England Medical Center and the Tufts University School of Medicine in Boston.

Project ECHO (Extension for Community Health Outcomes) launched in 2004, using teleconferencing to help treat thousands of Hepatitis C patients throughout the state who couldn't get to Arora for badly needed treatment. ECHO has since expanded to include statewide specialty care for dementia, diabetes, HIV/AIDS, addiction, psychiatry, women's health and host of other maladies.



Sarah Lathrop, DVM, PhD

Population Science Research, 2012

As an epidemiologist for the Office of the Medical Investigator, Sarah Lathrop analyzes data and finds trends involving unexpected deaths in New Mexico, but her work has had significant benefits for the living.

Michelle Barry Aurelius nominated her for this award for the impact her work has on New Mexicans: “Without her investigations, we would not have the data to prevent food-borne illnesses, protect our children from death and realize that New Mexico ranks No. 1 in prescription overdose deaths.” Lathrop says, “My greatest satisfaction is working with students – to see them understand that research is really worthwhile and achievable,” she says.

Lathrop grew up on a Wisconsin farm and pursued her lifelong dream of being a veterinarian. Taking opportunities as they came, she shifted careers and eventually ended up at UNM 10 years ago. When she's not busy analyzing data and mentoring students, she enjoys knitting, Irish step-dancing and traveling with her husband and 9-year-old son.



Nikki Jernigan, PhD

Junior Faculty Research, 2012

Nikki Jernigan's quiet demeanor belies her fierce determination to understand the molecular mechanisms that damage blood vessels in pulmonary hypertension.

Her path to pulmonary circulation research has been as much circumstance as design. She grew up in a large, close-knit family near Grants, NM. From her family she learned the importance of education and the value of persistence.

She often found herself in leadership positions at school through her involvement in student government and athletics. Her first undergraduate research project gave her a taste for biological research. “I'd never considered research as my career prior to that,” Jernigan says. “I was taking engineering courses along with biology courses, because my path just didn't seem very clear.”

Now a PhD researcher in UNM's Cell Biology Physiology lab, she finds the hunt for answers to be more compelling than ever. “The excitement of discovery is exhilarating,” Jernigan says. She feels the same outside the lab, when she's spending time with her husband raising their two daughters.



UNM HEALTH SCIENCES CENTER

RESEARCH HIGHLIGHTS AND MILESTONES

1940s



1945

College of Pharmacy established.

1950s



1954

Bernalillo County Indian Hospital (BCIH) opens.



1955

College of Nursing begins accepting students.

1960s



1964

UNM School of Medicine opens.



1967

Basic Medical Sciences Building opens.



1968

BCIH is renamed Bernalillo County Medical Center, eventually to become UNM Hospital.

1970s



1972

First centralized radiopharmacy program established.



1975

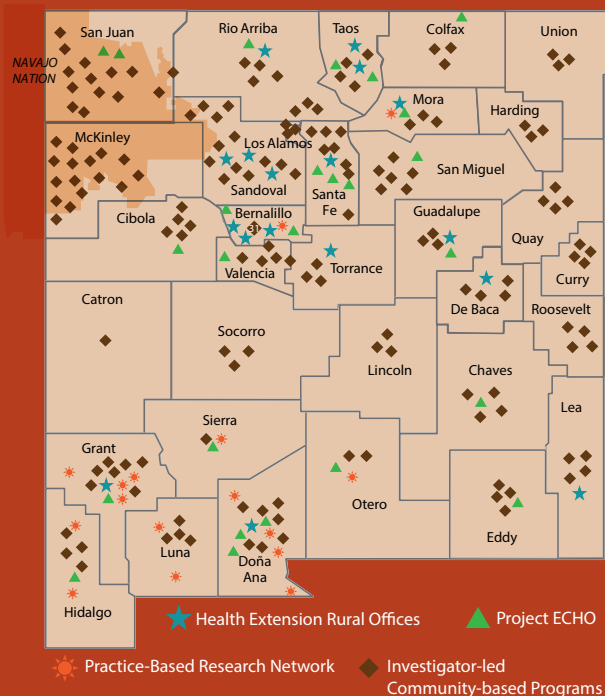
UNM Cancer Research & Treatment Center opens.

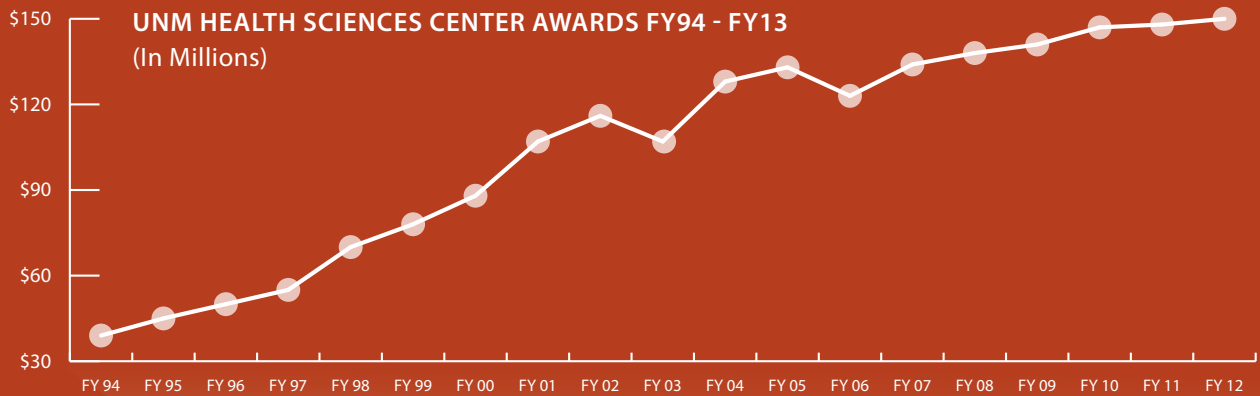


1977

UNM Medical Center established.

Research in New Mexico, 2013





1980s



1982

Biomedical Research Building opens.



1984

College of Pharmacy begins offering graduate degrees.



1986

The Center for Non-Invasive Diagnosis opens.

1990s



1994

Health Sciences Center created.



1998

Cancer Research Facility opens.

2000s



2003

Research Incubator Building opens.



2005

UNM Cancer Center receives National Cancer Institute designation.

2008

HSC receives grant for national Molecular Discovery Center.

2008

Multidisciplinary Research Facility opens.



2009

UNM Cancer Center and clinical research facility opens.

2009

Neurobiology Research Facility construction completed.

2010s



2010

The Clinical and Translational Science Center receives NIH designation.



2010

CTSC building opens.



2010

Mountain West Research Consortium created.



2012

Innovation, Discovery and Training Complex opens.

2012

Facility for Advanced Cell Engineering opens.

2013

Kidney Research Institute opens.

2013

Mountain West Research Consortium is fully recognized and funded by NIH.

UNM HEALTH SCIENCES TRAINING GRANTS - 2013

UNM HSC supports training in the biomedical sciences at all levels, engaging students and faculty through outreach initiatives and innovative programs to enhance biomedical excellence. We are pleased to recognize the outstanding students and researchers from our campus who have successfully obtained funding from a National Institutes of Health Research Training and Research Career Development program. These highly competitive national awards help to grow our education and research missions to produce the next generation of diverse and highly qualified biomedical scientists across the spectrum of human health.

**Jonathan Brigman, PhD**

K22 Scholar, NIH/NIAAA

Research Interest: Corticostriatal networks and NMDAR medication of habitual and flexible action in the mouse

**Jon Femling, MD, PhD**

KL2 Scholar, NIH/NCATS

Research Topic: Apolipoprotein B mediated control of Staphylococcus aureus virulence during critical illness
Mentors: Hattie Gresham, PhD, Pamela Hall, PhD, and Cameron Crandall, MD

**Alba A. Chavez-Dozal, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Molecular pathogenesis of candida albicans, including the role of secretory proteins in virulence and biofilm formation
Mentor: Samuel Lee, MD, PhD

**Olivia George, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Analyzing in vivo conformational changes of a transcription factor, c-Myb, using fluorescence resonance energy transfer (FRET) technology
Mentor: Scott Ness, PhD

**Jayne Christen, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Production of vaccine candidates by affinity selection using a virus-like particle platform technology
Mentor: Bryce Chackerian, PhD

**Brian Gray, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Role of agr-mediated quorum sensing in gram-positive bacterial pathogens and elucidating how novel small molecular inhibitors of quorum sensing block the activation of pathogenic programs in Staphylococcus aureus
Mentors: Hattie Gresham, PhD, and Pamela Hall, PhD

**Brian Coffman, PhD Candidate**

T32 Scholar, NIH/NIAAA

Research Topic: Neuroimaging of children and adolescents diagnosed with FASD, particularly for identification of neurobiological mechanisms of sensory and cognitive dysfunction
Mentor: Julia Stephen, PhD

**John Hammond, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Phenotypic plasticity in mosquitoes and its effects on disease transmission
Mentors: Helen Wearing, PhD, and Felisa Smith, PhD

**Dawn Delfin, PhD**

KL2 Scholar, NIH/NCATS

Research Topic: Cardiac claudin-5: mechanistic studies on its role in the heart, its downregulation during heart failure and identification of small-molecule modulators
Mentors: Matthew Campen, PhD, Mary Walker, PhD, and Carlos Roldan, MD

**Stephanie Jerman, PhD Candidate**

F31 Scholar, NIH/NIDCR

Research Interest: OFD1 as a constituent of a multi-meric protein complex in odontoblast primary cilia
Mentor: Angela Wandinger-Ness, PhD

**Darrell Dinwiddie, PhD**

KL2 Scholar, NIH/NCATS

Research Topic: Implementing genomic medicine in a children's hospital
Mentors: Stuart Winter, MD, and Scott Ness, PhD

**Britta Lindquist, BA**

F31 Scholar, NIH/NINDS

Research Interest: Adenosine receptor activation in spreading depolarization and ischemic injury
Mentor: Bill Shuttleworth, PhD

UNM HEALTH SCIENCES TRAINING GRANTS - 2013

**Russell Morton, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Developmental alcohol exposure and the effects on serotonin signaling in the rodent hippocampus

Mentor: C. Fernando Valenzuela, MD, PhD

**Robert Oliver, BA**

T32 Scholar, NIH/NIAAA

Research Topic: Drug and alcohol addiction, with emphasis on micro-RNAs

Mentor: Nora I. Perrone-Bizzozero, PhD

**Jennifer Pascal, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Predicting patient response to chemotherapy using mathematical modeling

Mentor: Vittorio Cristini, PhD

**Sarah Pirio-Richardson, MD**

KL2 Scholar, NIH/NCATS

Research Topic: Non-invasively altering plasticity in the brain, using transcranial magnetic stimulation, to improve symptoms and quality of life in patients with movement disorders

Mentors: Bill Shuttleworth, PhD, and Leslie Morrison, MD

**Summer Raines, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: V-ATPase function in C. albicans physiology and the role of organelle pH as a determinant of virulence-associated traits

Mentor: Karlett Parra, PhD

**Sabrina Samudio-Ruiz, PhD**

K01 Scholar, NIH/NCI

Research Interest: EGF receptor, DNA methylation, and platinum resistance in ovarian cancer

Mentor: Laurie Hudson, PhD

**Montaser Shaheen, MD**

K01 Scholar, NIH/NHLBI

Research Interest: The role of hPso4 in DNA repair and chemotherapy resistance

Mentor: Alan Tomkinson, PhD

**Akshay Sood, MD, MPH**

K23 Scholar, NIH

Research Interest: Obesity-related host susceptibility factors for asthma in women

Mentors: Marianne Berwick, Ph.D., Mark Schuyler, MD, and Clifford Quails, Ph.D.

**Miranda Staples, PhD**

F31 Scholar, NIH/NIAAA

Research Interest: Consequences of prenatal ethanol exposure and maternal stress on offspring

Mentor: Dan Savage, PhD

**Robert Taylor, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Genomic analysis of hepatocellular carcinomas using next generation sequencing and superparamagnetic nanoparticle synthesis for cancer applications

Mentor: Rama Gullapalli, MD, PhD

**Lauren Topper, BSc**

T32 Scholar, NIH/NIAAA

Research Interest: Effects of developmental ethanol exposure on glutamatergic transmission in the hippocampal CA3 region

Mentor: C. Fernando Valenzuela, MD, PhD

**Kelly M. Trujillo, PhD**

K22 Scholar, NIH

Research Interest: Role of histone H2B ubiquitylation in DNA replication

Mentor: Mary Ann Osley, PhD

**Gloriana Trujillo, PhD**

K12 Scholar, NIH/NIGMS

Research Interest: Investigating the genetic and temporal control of Wg on ostia formation in the drosophila melanogaster dorsal vessel

Mentor: Richard Cripps, D. Phil.

**Sonlee West, MD**

KL2 Scholar, NIH/NCATS

Research Interest: The immune response to trauma

Mentors: Arup Das, MD, PhD, and Carolyn Mold, PhD

**Claire Wilcox, MD**

K23 Scholar, NIH/NIAAA

Research Interests: Neural mechanisms of change during treatment of alcohol use disorder with prazosin

Mentor: Michael Bogenschütz, MD

HSC ANNUAL REPORT OF CONTRACTS & GRANTS BY THE NUMBERS



\$149,797,916

Total awards in FY13



40%

Award increase since 2004



273

Principal investigators



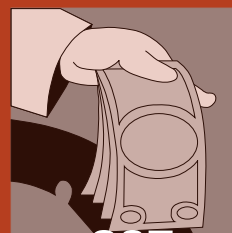
286

Number of awards for
health research with
underrepresented minorities



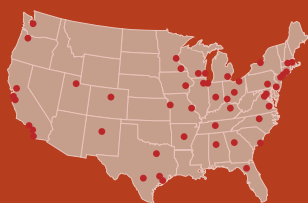
1,244

Proposals submitted



807

Proposals awarded



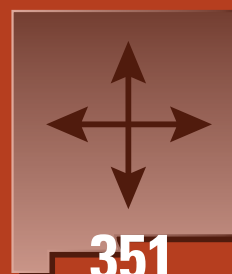
1 of 40

Institutions nationally to have
both an NIH-designated Clinical
and Translational Science
Center and NIH-designated
Cancer Center



30

Business start-ups over
10 years



351

Number of community
research study sites in
New Mexico

UNM HEALTH SCIENCES CENTER CONTRACTS AND GRANTS 2013

Chancellor for Health Sciences	34
Office of Community Health.....	34
Health Sciences Library and Informatics Center	34
Office of Research.....	34
Animal Resource Facility	34
Locum Tenens	34
Clinical and Translational Science	34-35
Financial Aid.....	35
College of Pharmacy.....	35-36
College of Nursing	37
School of Medicine	37
Anesthesiology	37
Biochemistry and Molecular Biology.....	37
Cancer Research & Treatment Center.....	37-39
Cell Biology and Physiology	39
Center for Infectious Disease and Immunity.....	40
Continuing Medical Education.....	40
Emergency Medicine.....	41
Family and Community Medicine.....	42
Internal Medicine	43-45
Molecular Genetics and Microbiology.....	45-46
Neurology	46
Neurosciences	47
Neurosurgery	47
New Mexico Tumor Registry	47
Obstetrics and Gynecology.....	48
Office of the Medical Investigator.....	48
Orthopaedics	48
Pathology.....	49-50
Pediatrics.....	50-53
Psychiatry	53-55
Radiology.....	55
Surgery.....	55-56
Dental Medicine	56
The Echo Institute.....	56
UNM Hospital	55

Special thanks to the Office of Pre-Award for their assistance.

CHANCELLOR FOR HEALTH SCIENCES

DEBORAH HELITZER

University of Wyoming\$5,000
Undergraduate Pipeline Network Summer Research Experience

RICHARD LARSON

Lovelace Respiratory Research Institute\$53,128
LRRI/BSGP Administrative Support Agreement

PAUL B. ROTH / RICHARD S. LARSON

Association of American Medical Colleges\$107,100
Developing a Workforce to Improve Health and Reduce Disparities

CAROLYN VOSS

New Mexico Department of Health\$10,000
Psychiatric Services for New Mexico Behavioral Health Institute Patients

New Mexico Department of Health\$7,613
Locum Tenens Services for Turquoise Lodge Hospital

OFFICE OF COMMUNITY HEALTH

ARTHUR KAUFMAN

Molina Healthcare of New Mexico\$1,890
Community Health Worker Care Coordination Model

New Mexico Department of Health\$204,493
New Mexico Immunization Coalition

New Mexico Department of Health\$204,492
New Mexico Immunization Coalition

New Mexico Department of Health\$11,500
New Mexico Immunization Coalition

SARAH LATHROP

New Mexico Department of Health\$931,118
New Mexico Emerging Infections Program

VERONICA PLAZA

Southwest Creations Collaborative.....\$49,000
Hacia la Universidad in Albuquerque Public Schools

HEALTH SCIENCES LIBRARY & INFORMATICS CENTER

PATRICIA BRADLEY

Houston Academy of Medicine\$15,000
Outreach 2013-2014

GALE HANNIGAN

Houston Academy of Medicine\$5,000
I Heard It On the Radio

Houston Academy of Medicine\$5,000
Improving Access to Health Information by Residents and Providers in a Homeless Shelter

OFFICE OF RESEARCH

RICHARD LARSON

Lovelace Respiratory Research Institute\$71,425
LRRI/BSGP Fellowship Agreement

Animal Resource Facility

RICHARD LARSON

New Mexico VA Health Care System.....\$24,085
Veterinary Services for the New Mexico Veterans Affairs Health Care System

Locum Tenens

CAROLYN VOSS

New Mexico Department of Health\$150,000
Psychiatric Services for New Mexico Behavioral Health Institute Patients

New Mexico Department of Health\$12,373
Locum Tenens Services for Turquoise Lodge Hospital

CHERYL WILLMAN

Department of Health & Human Services/Indian Health Service.....\$25,000
Outpatient Professional Oncology Diagnostic and Therapeutic Services

Clinical and Translational Science

CHRISTOPHER ABBOTT

Dana Foundation\$200,000
Biomarkers of ECT Response and Relapse in Major Depressive Disorder

ELLEN BESWICK

University of Texas Medical Branch at Galveston.....\$8,818
The Role of Altered B7-Homologue Expression by Intestinal Subepithelial Myofibroblasts in Inflammatory Bowel Disorder

MARCO BISOFFI

University of California-Davis\$60,000
Development of a Rapid Point of Care Biosensor for the Detection of Blood-Borne Viruses

MARK BURGE

University of Utah\$73,192
Iron-induced Oxidative Stress and Mitochondrial Dysfunction: Effects on Insulin Secretion and Insulin Sensitivity-CTSC Affiliate

RICHARD LARSON

NIH/National Center for Advancing Translational Sciences.....\$3,849,555
Clinical and Translational Science Center - UL1 - Year 4

NIH/National Center for Advancing Translational Sciences.....\$307,137
Clinical and Translational Science Center - KL2 - Year 4

Biomedical Research Institute of New Mexico\$20,000
Exercise Interventions During Voluntary Weight Loss in Obese Older Adults



Lu Li, MD

The Mind Research Network	\$13,015
<i>Sensitivity to Intravenous Ethanol: Neuroimaging and Behavioral Phenotypes</i>	
Biomedical Research Institute of New Mexico	\$9,889
<i>Exercise Interventions During Voluntary Weight Loss in Obese Older Adults</i>	
The Mind Research Network	\$2,469
<i>Sensitivity to intravenous ethanol: Neuroimaging and Behavioral Phenotypes</i>	

SARAH RICHARDSON PIRIO

Emory University	\$78,925
<i>Dystonia Coalition Clinical Project</i>	
Dystonia Medical Research Foundation	\$50,000
<i>Identification of Optimal Stimulation Site for Cervical Dystonia</i>	

AKSHAY SOOD

National Institutes of Health	\$176,264
<i>Obesity-Related Host Susceptibility Factors for Asthma in Women</i>	
Lovelace Biomedical & Environmental Research Institute	\$17,511
<i>Biomarker Signature in COPD</i>	

ROBERT WILLIAMS

National Institutes of Health	\$598,500
<i>New Mexico Center for Advancement of Research, Engagement and Science on Health Disparities</i>	
National Institutes of Health	\$263,590
<i>New Mexico Center for Advancement of Research, Engagement & Science on Health Disparities - P20 Supplement</i>	

Financial Aid

MARY FENTON

Health Resources and Services Administration	\$650,000
<i>Scholarships for Disadvantaged Students - Allopathic Medicine</i>	
Health Resources and Services Administration	\$609,635
<i>Scholarship for Disadvantaged Students - Allopathic Medicine</i>	
Health Resources and Services Administration	\$465,000
<i>Scholarships for Disadvantaged Students - Medical Laboratory Sciences</i>	
Health Resources and Services Administration	\$436,123
<i>Scholarship for Disadvantaged Students - Medical Laboratory Sciences</i>	
Health Resources and Services Administration	\$4,517
<i>Loan for Disadvantaged Student - Allopathic Medicine</i>	

COLLEGE OF PHARMACY

LUDMILA BAKHIREVA

University of California, San Diego	\$50,000
<i>Organization of Teratology Information Specialists Research Network</i>	

BLAINE BENSON

National Capital Poison Center	\$112,865
<i>Creating a Virtual Poison Center</i>	
Health Resources and Services Administration	\$111,270
<i>Poison Control Stabilization and Enhancement Program</i>	
Health Resources and Services Administration	\$1,000
<i>Poison Control Stabilization and Enhancement Program</i>	

RUCHA BOND

American Association of Colleges of Pharmacy	\$7,590
<i>Creation and Pilot of an Experiential Observational Professionalism Assessment Tool</i>	

SCOTT BURCHIEL

National Institutes of Health	\$303,222
<i>Synergistic Immunosuppression by PAHs and Arsenite</i>	



Joseph Sanchez

MATTHEW CAMPEN

University of Washington	\$40,000
<i>Systematic Inflammatory Potential of Inhaled Coarse Particulates</i>	
University of Washington	\$37,750
<i>Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions</i>	
University of Washington	\$36,959
<i>Cardiovascular Consequences of Immune Modification by Traffic-Related Emissions</i>	
PGTi Biosciences Inc.	\$25,500
<i>Efficacy Testing of Novel Compounds Reversing MCT-Induced Pulmonary Hypertension in a Rat Model</i>	
University of Texas, El Paso	\$19,026
<i>Chronic Particulate Matter Exposure, Inflammation and Atherogenesis in At-Risk Children</i>	
Corridor Pharmaceuticals, Inc.	\$4,000
<i>Pharmacokinetic Pilot Study of Novel Test Article</i>	

PAULINA DEMING

Janssen Pharmaceutical	\$3,040
<i>Simeprevir Observational Effectiveness Across Practice Setting Study, Protocol Development External Working Group Meeting</i>	

MELANIE DODD

Association of American Medical Colleges	\$2,000
<i>Interprofessional Geriatric Assessment Elective for Health Professional Students: A Standardized Patient Case Study and Patient Script</i>	

CHANGJIAN FENG

National Science Foundation	\$100,000
<i>Molecular Mechanism of Nitric Oxide Synthase Regulation</i>	
National Science Foundation	\$100,000
<i>Mechanism of Nitric Oxide Synthase Regulation by interdomain FMN/heme Docking</i>	

LARRY GEORGOPOULOS

First Choice Community Healthcare	\$162,120
<i>Pharmacist Consultant Agreement</i>	
First Nations Community Healthsource, Inc.	\$6,000
<i>First Nations Community Healthsource, Inc.</i>	

PAMELA HALL

National Institutes of Health	\$339,751
<i>Apolipoprotein B and Control of S. aureus Quorum Sensing</i>	



Stanley Snowden, PharmD

COLLEGE OF PHARMACY (continued)

National Institutes of Health	\$46,259
<i>Apolipoprotein B and Control of S. aureus Quorum Sensing - Diversity Supplement</i>	
National Institutes of Health	\$29,466
<i>Apolipoprotein B and Control of S. aureus Quorum Sensing</i>	
Sandia National Laboratories	\$22,650
<i>In Vivo Delivery of Antibiotic Compounds Using Protocells</i>	
National Institutes of Health	\$15,100
<i>Apolipoprotein B and Control of S. aureus Quorum</i>	
NIH/National Institute of Allergy and Infectious Diseases	\$2,054
<i>Apolipoprotein B and Control of S. aureus Quorum Sensing</i>	

LAURIE HUDSON

U.S. Department of Defense	\$527,399
<i>Inhibition of Small GTPases as a Novel Therapeutic Approach in Ovarian Cancer</i>	
National Institutes of Health	\$203,850
<i>Predicting Novel Arsenic Targets in DNA Repair Pathways</i>	
NIH/National Institute of Environmental Health Sciences	\$169,875
<i>Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins</i>	
National Institutes of Health	\$136,172
<i>Capitalizing on NSAID Enantiomer Selectivity for Cancer Therapy (PQ5) (MPI)</i>	
NIH/National Institute of Environmental Health Sciences	\$166,478
<i>Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins</i>	

JOHNNYE LEWIS

Centers for Disease Control and Prevention	\$1,000,000
<i>A Prospective Birth Cohort Study Involving Uranium Exposure in the Navajo Nation</i>	

JIM LIU

National Institutes of Health	\$169,875
<i>Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins</i>	
National Institutes of Health	\$166,477
<i>Arsenic Co-Carcinogenesis with UVR: Nitrosation and Oxidation of Target Proteins</i>	
National Institutes of Health	\$4,000
<i>The 7th Conference on Metal Toxicity and Carcinogenesis</i>	

RENEE CLAUDE MERCIER

VA Palo Alto Health Care System	\$171,637
<i>Healthcare Associate Infection & Influenza Surveillance System</i>	

Hartford Hospital	\$2,700
<i>Hartford Hospital Microbiology Data</i>	
Cubist Pharmaceuticals	\$1,500
<i>Research Study Agreement</i>	

JEFFREY NORENBURG

invicRO	\$494,325
<i>Task 17 May 2012: 68Ga Labeling of DOTA-Conjugated Peptide: Labeling Optimization and Kit Formulation</i>	
Los Alamos National Laboratory	\$149,620
<i>Evaluation of Radiochemistry of Ac-225/Bi 213 Produced Via Alternate Methods</i>	
invicRO	\$50,480
<i>Task 18: Peptides Ahx-STp(5-18)</i>	
invicRO	\$40,299
<i>Task 21: SPECT/CT Imaging of 99m Tc-MIBI and 201Tl, co-injected, in both a mouse model of amyotrophic lateral sclerosis (ALS, JAX model # 002726) and a mouse model of spinal muscular atrophy (SMA, JAX model #005025) Tc-MIBI and 201Tl</i>	
invicRO	\$13,137
<i>Task 16 April 2012: Radiolabeling & SPECT/CT Imaging of Pegylated NBN, PEG, and Iodotyrosine for Labeling Validation, Study of in Vivo Targeting and Pharmacokinetics in a Rat Model of Neuropathic Pain (CCI)</i>	
invicRO	\$11,088
<i>Task 19: (June 2012) Radiolabeling & SPECT/CT Imaging of Pagylated NBN & an Anti REF Fab 2 Study of in Vivo Targeting and Pharmacokinetics in Wild-type Mice</i>	
invicRO	\$8,932
<i>Task 17 May 2012: 68Ga Labeling of DOTA-conjugated Peptide: Labeling Optimization and Kit Formulation - Supplement</i>	
invicRO	\$3,542
<i>Task 15: Peptides Ahx-STp(5-18)</i>	

DENNIS RAISCH

University of South Carolina	\$60,674
<i>Southern Oncology Network on Adverse Reactions (SONAR)</i>	
University of South Carolina	\$4,000
<i>Who's Watching MedWatch: An Assessment of Hematology-Oncology Drugs and VTE Reporting</i>	

SABRINA L SAMUDIO- RUIZ

NIH/National Cancer Institute	\$114,405
<i>EGF Receptor, DNA Methylation and Platinum Resistance in Ovarian Cancer</i>	

GRAHAM TIMMINS

STC@UNM	\$25,000
<i>Magnetodynamic Activation of 13C-Acyl-Isoniazid</i>	

MARY WALKER

NIH/National Institute of Environmental Health Sciences	\$453,000
<i>Human CYP1A1, Diet and Dioxin-Induced Hypertension (AREA Grant)</i>	

LYNDA WELAGE

Cubist Pharmaceuticals	\$15,000
<i>Professional Speaker Agreement (Renee Mercier)</i>	

MICHELLE TRACI WHITE

Mesilla Valley Hospice	\$35,151
<i>Mesilla Valley Hospice Pharmacist Clinician Agreement</i>	

KRISTINA WITTSTROM

Triad Isotopes, Inc.	\$2,500
<i>Tc-99m Radiolabeling of Red Blood Cells</i>	

COLLEGE OF NURSING

MARY ANDERSON

Central Region Educational Cooperative \$162,333
Central Regional Educational Cooperative

ACE Leadership High School \$49,999
The Board of Architecture, Construction, and Engineering Leadership High School

First Nations Community Healthsource, Inc. \$46,008
First Nations Community Healthsource, Inc.

DEBRA BRADY

Robert Wood Johnson Foundation \$300,000
Academic Progression in Nursing

SALLY COHEN

Robert Wood Johnson Foundation \$1,755,665
RWJF Nursing & Health Policy Collaborative and University of New Mexico

JEAN GIDDENS

New Mexico Higher Education Department \$96,758
FY 2013 Nursing Enhancement Program

AMY JO LEVI

Kesselman \$2,700
Kesselman-Jones

ROBIN MEIZE-GROCHOWSKI

Altarum \$109,990
Center of Excellence in Pain Education

BARBARA ANN OVERMAN

El Pueblo Health Service \$57,656
El Pueblo Health Services

El Pueblo Health Service \$22,922
El Pueblo Health Services

NANCY RIDENOUR

El Pueblo Health Service \$448,678
Innovation in Primary Care Oral Health: Interprofessional Team Practice/Model

City of Albuquerque \$147,000
Health Services Coordination

City of Albuquerque \$50,000
Geriatric Education & Health Maintenance (GEHM Clinic)

City of Albuquerque \$14,000
Health Services Coordination

BETH LIND RODGERS

DeVilbiss Healthcare \$28,000
Effects of Increased Engagement on CPAP Adherence and Therapy Outcomes

SCHOOL OF MEDICINE

VALERIE ROMERO-LEGGOTT

Health Resources and Services Administration \$728,297
Hope, Enrichment, and Learning Transform Health in New Mexico

CAROLYN VOSS

New Mexico Department of Health \$1,179,731
Sustain Level 1 Trauma Center Designation & Improve Viability

New Mexico Department of Health \$19,500
Think First Injury Prevention Project

New Mexico Department of Health \$14,318
Vasectomy Sterilization Surgical Procedures Project

Anesthesiology

JONATHAN MARINARO

Kindred Hospital (Transitional Hospitals Corp of New Mexico) \$64,800
Medical Director

ISAAC TAWIL

DCI Donor Services \$19,777
Medical Director Services

Biochemistry and Molecular Biology

NATALIE ADOLPHI

National Institute of Justice \$574,868
Investigation of the Impact of Body Temperature and Post-Mortem Interval on
Magnetic Resonance Imaging of Unfixed Tissue

JEFFREY GRIFFITH

New Mexico State University \$713,055
New Mexico IDeA Networks of Biomedical Research Excellence

KARLETT PARRA

National Institutes of Health \$285,630
V-ATPase H+ Pump Regulation in Fuel Energy Selection

MARTINA ROSENBERG

National Science Foundation \$17,674
Regional Workshop for Discipline Based Ed Researchers in New Mexico

VALLABH SHAH

Biomedical Research Institute of New Mexico \$9,966
Exercises Interventions during Voluntary Weight Loss in Obese Older Adults

Patient Centered Outcomes Research Institute \$693,838
Reducing Health Disparity in Chronic Kidney Disease in Zuni Indians

KRISTINA TRUJILLO

NIH/National Cancer Institute \$197,055
Using Biomarkers of Field Cancerization to Identify Breast Tissue at Risk for
Tumorigenesis

Cancer Research & Treatment Center

MARIANNE BERWICK

University of North Carolina Medical School at Chapel Hill \$44,893
Melanoma RAS/BRAF Mutation: Heterogeneity-Risk Prognosis



Justine Saavedra

Cancer Research & Treatment Center (continued)

MARIANNE BERWICK (CONTINUED)

Memorial Sloan-Kettering Cancer Center.....	\$19,200
<i>The Framingham School Study of Nevi in Children: SONIC II</i>	
Memorial Sloan-Kettering Cancer Center.....	\$10,968
<i>Validation of the Use of Whole-Genome Amplified DNA in a Population-Based Study</i>	

LINDA SUE COOK

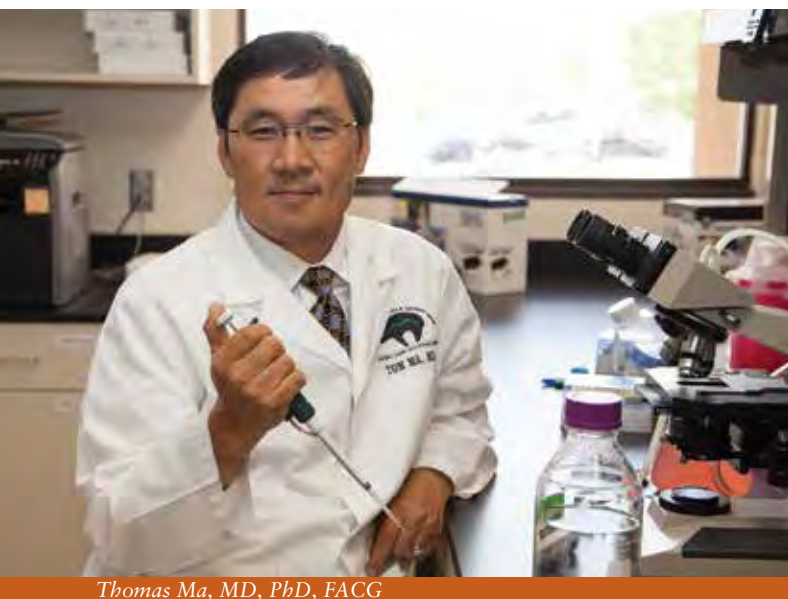
NIH/National Cancer Institute.....	\$542,855
<i>Mitochondrial DNA and Ovarian Cancer Risk and Recurrences</i>	
Fred Hutchinson Cancer Research Center.....	\$156,678
<i>Understanding and Preventing Breast Cancer Disparities in Latinas: Project 4</i>	
Fred Hutchinson Cancer Research Center.....	\$112,632
<i>Understanding and Preventing Breast Cancer Disparities in Latinas: Project 3</i>	
NIH/National Cancer Institute.....	\$111,568
<i>Mitochondrial DNA and Ovarian Cancer Risk and Survival</i>	
Fred Hutchinson Cancer Research Center.....	\$49,113
<i>Administrative Supplement to Understanding and Preventing Breast Cancer in Latinas: Project 4</i>	

BARBARA DAMRON

NIH/National Cancer Institute.....	\$140,000
<i>Administrative Supplement to Expand NCI-Supported Community Outreach Capacity Through Community Health Educators of the National Outreach Network</i>	
Consulate of Mexico in Albuquerque.....	\$36,000
<i>Ventanilla de Salud</i>	
American Cancer Society.....	\$22,725
<i>UNMCC Mobile Mammography Screening Program</i>	
New Mexico Department of Health.....	\$15,000
<i>Native American Cancer Education Project 2014</i>	
New Mexico Department of Health.....	\$8,000
<i>Native American Cancer Education Project 2013 (Reducing Health Disparities)</i>	

ZONEDDY DAYAO

Brigham and Women's Hospital.....	\$101,048
<i>CCOP Cancer Prevention and Symptom Intervention Pilot Project Funds</i>	
New Mexico Cancer Care Alliance.....	\$94,544
<i>Clinical Trial Phase 3</i>	



Thomas Ma, MD, PhD, FACC

ESME FINLAY

Dana Farber Cancer Institute.....	\$32,569
<i>INST DFCI 09-250 Coping with Cancer II</i>	
Dana Farber Cancer Institute.....	\$18,438
<i>INST DFCI 09-250 Coping with Cancer II</i>	

SARAH FOSTER ADAMS

American Cancer Society.....	\$729,000
<i>Intestinal Immune Tolerance Promotes Ovarian Cancer Dissemination</i>	
Ovarian Cancer Research Fund, Inc.....	\$150,000
<i>A Combination Therapy for Hereditary Ovarian Cancer</i>	
Ovarian Cancer Research Fund, Inc.....	\$143,152
<i>A Combination Therapy for Hereditary Ovarian Cancer</i>	

DEIRDRE HILL

NIH/National Cancer Institute.....	\$237,164
<i>Towards a Transdisciplinary Understanding of Breast Cancer Survival Disparities</i>	
Group Health Research Institute.....	\$35,562
<i>Risk Based Breast Cancer Screening in Community Settings</i>	
Dartmouth College.....	\$1,586
<i>Mammography Study Address File</i>	

RICHARD HOFFMAN

NCIRE - The Veterans Health Research Institute.....	\$52,426
<i>Prostate-Specific Antigen Practices and Outcomes in the Elderly</i>	
Georgetown University.....	\$15,171
<i>Treatment Decisions and Patient Reported Outcomes in Low Risk Prostate Cancer</i>	

HUINING KANG

Gabrielle's Angel Foundation.....	\$25,000
<i>Statistical Methods for Evaluating Cancer Biomarkers</i>	

RICHARD LAUER

New Mexico Cancer Care Alliance.....	\$75,705
<i>Clinical Trial - Phase II</i>	

DAVID LEE

American Society for Radiation Oncology.....	\$13,801
<i>Identification of a Histone H2A E3 Ligase, hRUL 138, as a Substrate for Protein Arginine Methyltransferase, CARM1, and its Role in DNA-Damage Repair</i>	

FA-CHYI LEE

New Mexico Cancer Care Alliance.....	\$134,414
<i>Clinical Trial - Phase Ib</i>	

ELIZABETH MCGUIRE

New Mexico Cancer Care Alliance.....	\$130,524
<i>Clinical Trial - Phase II</i>	
New Mexico Cancer Care Alliance.....	\$89,674
<i>Clinical Trial - Phase III</i>	
New Mexico Cancer Care Alliance.....	\$62,639
<i>Clinical Trial - Phase III</i>	

CAROLYN MULLER

New Mexico Cancer Care Alliance.....	\$89,363
<i>Clinical Trial - Phase III</i>	
New Mexico Cancer Care Alliance.....	\$80,400
<i>Clinical Trial - Phase III</i>	

JANET OLIVER

NIH/National Cancer Institute.....	\$370,811
<i>Integrative Cancer Nanoscience And Microsystems (IC-NSMS) Training Center</i>	

MICHELLE OZBUN

American Cancer Society.....	\$120,000
<i>American Cancer Society Institutional Research Grant (ACS-IRG)</i>	

YEHUDA PAT

New Mexico Cancer Care Alliance \$217,665
Clinical Trial - Phase III

DULCINEA QUINTANA

New Mexico Cancer Care Alliance \$146,025
Clinical Trial - Phase I & II

ASHWANI RAJPUT

Brigham and Women's Hospital \$90,600
ACOSOG Services Agreement

MELANIE ROYCE

NIH/National Cancer Institute \$705,607
New Mexico Minority Based Community Clinical Oncology Program

New Mexico Cancer Care Alliance \$106,305
Clinical Trial - Phase II

New Mexico Cancer Care Alliance \$85,710
Clinical Trial - Phase II

MONTASER SHAHEEN

New Mexico Cancer Care Alliance \$142,050
Clinical Trial - Phase II

NIH/National Heart, Lung and Blood Institute \$135,657
The Role of hPso4 in DNA Repair and Chemotherapy Resistance

New Mexico Cancer Care Alliance \$75,649
Clinical Trial - Phase III

Lovelace Biomedical & Environmental Research Institute \$33,292
INST 1117: Biomarkers for Epigenetic Therapy of Lung Cancer

LARRY SKLAR

Carnegie Mellon University \$151,000
Small Molecule Discovery with HTS Multiplex Flow Cytometry and FAP Technology

ALAN TOMKINSON

NIH/National Institute of Environmental Health Sciences \$269,721
Roles of Lig3 and XRCC1 Genes in Genome Stability

NIH/National Institute of General Medical Sciences \$238,580
Cellular Functions of Eukaryotic DNA Ligases

Lawrence Berkeley National Laboratory \$92,617
Structural Cell Biology of DNA Repair Machines

University of Maryland, Baltimore County \$50,780
ARRA-Nitrosamine Chemistry and Biochemistry

NIH/National Institute of General Medical Sciences \$15,704
Cellular Functions of Eukaryotic DNA Ligases

CHERYL WILLMAN

NIH/National Cancer Institute \$1,934,105
University of New Mexico Cancer Center Support Grant

NIH/National Cancer Institute \$585,133
Molecular Signatures for Outcome Predictions and Therapeutic Targeting in ALL (SPECS II)

NIH/National Cancer Institute \$353,085
Peptide-Directed Protocells and Virus-like Particles-New Nanoparticle Platforms for Targeted Cellular Delivery of Multicomponent Cargos (MPI)

NIH/National Cancer Institute \$75,000
Clinical Trials Reporting Programs 2012

Gabrielle's Angel Foundation \$25,000
In Vivo Models for Design and Optimization of Targeted Nanocarriers (Protocells) for Leukemia Therapy

U.S. Department of Veterans Affairs \$17,500
Brachytherapy Treatment Services

New Mexico Cancer Care Alliance \$5,418
Administrative Services Agreement (Losee)



Oscar Bizzozero, PhD

BRIDGET WILSON

NIH/National Institute of General Medical Sciences \$2,730,110
Center for the Spatiotemporal Modeling of Cell Signaling

Cell Biology and Physiology**OSCAR BIZZOZERO**

NIH/National Institute of Neurological Disorders and Stroke \$226,500
The Pathogenic Role of Protein Aggregation in Inflammatory Demyelination

LAURA GONZALEZ BOSC

NIH/National Heart, Lung, and Blood Institute \$37,125
NFATc3 in Chronic Hypoxic Pulmonary Hypertension

NIKKI JERNIGAN

National Institutes of Health \$377,500
Vascular Smooth Muscle Function in Pulmonary Hypertension

JETT STEPHEN

Department of Defense / Air Force Research Laboratory \$84,984
Biological Nanoplatforams for Integrated Molecular-Scale-Self-Assembled

TriCore Reference Laboratories \$26,984
Renal Biopsy Processing for Electron Microscopy - PSA

ERIC PROSSNITZ

NIH/National Cancer Institute \$313,325
G Protein-Coupled Estrogen Receptor GPER and Breast Carcinogenesis

NIH/National Cancer Institute \$294,526
G Protein-Coupled Estrogen Receptor GPER and Breast Carcinogenesis

NIH/National Institute on Drug Abuse \$3,775
MLP Assay for Arrestin-AP2 Inhibitors

THOMAS RESTA

American Heart Association \$140,000
Pulmonary Vasoconstrictor Reactivity Following Intermittent Hypoxia

American Heart Association \$50,000
NADPH Oxidase-Mediated Pulmonary Vasoconstriction Following Chronic Hypoxia

BENJIMEN WALKER

NIH/National Heart, Lung, and Blood Institute \$355,785
Endothelial BK Channels and Vasoreactivity Following Chronic Hypoxia



Pamela Barraza, BS

Center for Infectious Disease and Immunity

JULIE LOVCHIK

Sandia National Laboratories\$22,729
Development of a Sustainable Anthrax Diagnostic Test For Countering the Biological Threat

TERRY WU

Department of Defense / Defense Threat Reduction Agency\$2,012,770
Evaluation of Novel Subunit Tularemia Vaccines in Rat & Non-Human Primate Aerosol Infection Models

Department of Defense / Defense Threat Reduction Agency \$471,000
Evaluation of Novel Subunit Tularemia Vaccines in Rat & Non-Human Primate Aerosol Infection Models

Sandia National Laboratories\$15,000
Systems Biology in 3D: Monitoring Dynamics of Francisella Tularensis-associated Granuloma Formation (addendum)

Continuing Medical Education

STEVEN MCLAUGHLIN

Shire Development Inc..... \$197,650
Optimizing Outcomes for Patients with ADHD

Astellas USA Foundation \$162,050
Evaluating Acute Chest Pain in the Emergency Department

UCB Pharma, Inc \$161,050
Restless Leg Syndrome

EMD Serono, Inc..... \$159,525
Overcoming Lipodystrophy in HIV

Eisai \$137,650
Optimizing the Use of Cytotoxic Chemotherapy

Millennium Pharmaceuticals, Inc.\$90,000
Refining Therapy in Multiple Myeloma

Mylan Specialty LP.....\$80,750
Improving Outcomes in Depression Management

Bristol-Myers Squibb, Inc.....\$75,000
A New Direction in Myeloma Management

Janssen Pharmaceutical\$75,000
2012 Fall Clinical Dermatology Conference

Janssen Pharmaceutical\$75,000
2013 Winter Clinical Dermatology Conference

Allergan, Inc.\$60,000
2013 Winter Clinical Dermatology Conference

Allergan, Inc.\$50,000
31st Fall Clinical Dermatology Conference

Alexion Pharmaceuticals, Inc.\$30,290
Treatment of Paroxysmal Nocturnal Hemoglobinuria

Amgen, Inc.\$25,000
31st Fall Clinical Dermatology Conference

Allergan, Inc.\$25,000
The Diagnosis and Treatment of Myofascial Pain Syndromes

Amgen, Inc.\$25,000
2013 Winter Clinical Dermatology Conference

Genentech, Inc.\$20,000
Treating to Targets in Rheumatoid Arthritis - 160200480

Novartis\$20,000
Building the Physician-Patient Partnership in Myeloma

Genentech, Inc.\$10,000
Update and Review of Internal Medicine CME

Vertex Pharmaceuticals Incorporated\$10,000
Update and Review of Internal Medicine

Mead Johnson & Company\$3,000
Amazing Newborns Conference

CDC Foundation\$2,350
2012 Taos Writing Retreat for Health Professionals

Northern Navajo Medical Center\$1,000
Pediatric and Neonatal Intensive Care Training-Torres

Northern Navajo Medical Center\$1,000
Critical Care training for NICU and PICU Patients- Cowan

Northern Navajo Medical Center\$1,000
Critical Care Training for NICU and PICU Patients- McCreight

Northern Navajo Medical Center\$1,000
Pediatric and Neonatal Intensive Care Training- Langsam

Northern Navajo Medical Center\$1,000
Pediatric and Neonatal Intensive Care Training- Jegathesan

Crownpoint Healthcare Facility\$425
The Diagnosis and Treatment of Myofascial Pain Syndromes: An Introductory Course

Crownpoint Healthcare Facility\$425
The Diagnosis and Treatment of Myofascial Pain Syndromes: An Introductory Course

Pueblo of Jemez\$385
7th International Academy on Nutrition and Aging 2012, Margaret R. Garcia

IHS Piñon Health Center\$295
Music, the Brain, Medicine and Wellness Conference 2012

Gallup Indian Medical Center\$255
2013 Annual Women's Health Conference

Crownpoint Healthcare Facility\$179
21st Annual Amazing Newborns Conference, Newborn Care in the 21st Century

Gallup Indian Medical Center\$165
Treating Chronic Pain in New Mexico, Eileen Philbin-Muldoon

Emergency Medicine

LAURA BANKS

New Mexico Transportation Department	\$150,000
<i>Pedestrian Safety Initiative</i>	
New Mexico Department of Health	\$143,099
<i>Hospital and Health Systems Preparedness</i>	
New Mexico Crime Victims Reparation Commission	\$73,000
<i>Intimate Partner Death Review Team Coordination</i>	
New Mexico Department of Health	\$23,927
<i>Statewide Trauma Training</i>	
National Association of County and City Health Officials	\$4,000
<i>Albuquerque Medical Reserve Corps Non-Competitive Capacity Building Award</i>	
National Association of County and City Health Officials	\$4,000
<i>47th Medical Company, New Mexico State Guard Medical Reserve Corps Non-Competitive Capacity Building Award</i>	

DARREN BRAUDE

Department of Defense / Kirtland Air Force Base	\$324,384
<i>UNM Educational Service Agreement</i>	
Department of Defense / Department of the Air Force	\$294,000
<i>UNM Educational Service Agreement</i>	
Department of Defense / Kirtland Air Force Base	\$294,000
<i>UNM Educational Service Agreement</i>	
City of Albuquerque	\$74,437
<i>Medical Directorship</i>	
City of Albuquerque	\$50,000
<i>Paramedic Training Program</i>	
Gypsum Medical Associates of New Mexico, P.C.	\$39,060
<i>Medical Director</i>	
Department of Defense / Kirtland Air Force Base	\$30,384
<i>UNM Educational Service Agreement</i>	
Department of Defense / Kirtland Air Force Base	\$30,384
<i>UNM Educational Service Agreement</i>	
Gypsum Medical Associates of New Mexico, P.C.	\$26,040
<i>Medical Director</i>	
Gypsum Medical Associates of New Mexico, P.C.	\$26,040
<i>Medical Director</i>	
New Mexico Department of Health	\$25,000
<i>Airway 911 for BLS and ILS Providers-A Multimedia Online Training Program</i>	
City of Rio Rancho	\$8,000
<i>City of Rio Rancho Fire Department Professional Services</i>	
Bernalillo County Sheriff's Department	\$6,000
<i>Professional Services Medical Director and SWAT Training</i>	
Albuquerque Ambulance	\$5,456
<i>AAS 11-39-A1 (Professional Agreement)</i>	
Town of Cochiti Lake	\$3,450
<i>Medical Director Services</i>	
Motion Picture Set Medics, LLC	\$2,604
<i>Professional Services</i>	

CAMERON CRANDALL

Department of Health & Human Services/National Center for Chronic Disease Prevention and Health Promotion/CDC	\$10,280
<i>IPA: Lynne Fullerton</i>	

JON KENNETH FEMLING

Olive View Medical Center-UCLA	\$10,000
<i>EMERGENCY ID NET</i>	

Olive View Medical Center-UCLA	\$4,000
<i>Prevalence on Pathogens in Cerebrospinal Fluid Obtained from Emergency Department Patients</i>	

Olive View Medical Center-UCLA	\$900
<i>EMERGENCY ID NET: Prevalence and Risk Factors for Community-Associated Clostridium Difficile Associated Disease Among Patients in the Emergency Department</i>	

ANDREW HARRELL

New Mexico Department of Health	\$26,500
<i>TSFA-UNM EMS Medical Direction Consortium Field Response Program</i>	
New Mexico Department of Health	\$1,000
<i>UNM-EMS Medical Direction Consortium Field Response Program</i>	

STEVEN MCLAUGHLIN

Bernalillo County Fire Department	\$63,053
<i>Medical Director Services</i>	
New Mexico State Fair	\$48,885
<i>Emergency Medical Services</i>	
River Medical Inc.	\$26,040
<i>Professional Services</i>	
Valencia Regional Emergency Communication Center	\$9,000
<i>Medical Director Services</i>	
IHS Piñon Health Center	\$1,395
<i>Update and Review of Internal Medicine 2012</i>	

BRIAN MOORE

New Mexico Department of Health	\$50,000
<i>Statewide Emergency Medical Services Medical Direction Project</i>	

ROBERT SAPIEN

Health Resources and Services Administration	\$200,000
<i>Emergency Medical Service for Children Regionalization</i>	
Health Resources and Services Administration	\$109,999
<i>EMS for Children State Partnership Competing Continuation Grant</i>	
New Mexico Department of Health	\$50,000
<i>The School Nurse Behavioral Health Training Project</i>	



Kristopher Marjon, PhD

Family and Community Medicine

WILLIAM ATHAS

Region IX Education Cooperative	\$25,000
<i>Development and Enhancement of New Mexico Early Learning Data Resources</i>	
New Mexico Department of Health	\$15,000
<i>Geocoding and Functional Requirement Group Support and Consultation</i>	
American Lung Association	\$10,000
<i>Respiratory Illnesses, Air Toxics, and Multi-Unit Housing</i>	
American Lung Association	\$750
<i>New Mexico Multi-Unit Housing GIS Database</i>	

SALLY BACHOFER

Health Resources and Services Administration	\$223,340
<i>Residency Training in Primary Care</i>	

LISA CACARI- STONE

Santa Fe Community Foundation	\$50,000
<i>Evaluating Health Equity in New Mexico: Impact of Place Matters, Health Impact Assessments</i>	

CHRISTINA GETRICH

University of North Carolina Medical School at Chapel Hill	\$8,850
<i>Development of a Spanish Language Colorectal Cancer Screening</i>	

DEBORAH HELITZER

National Institutes of Health	\$359,994
<i>Achieving a Critical Mass of Women Biomedical Faculty: Impact of Three US Programs</i>	
University of Texas at Tyler	\$88,197
<i>Evaluation Core of the SW Center for Agricultural Health, Injury Prevention and Education</i>	
University of Colorado – Denver	\$18,496
<i>MAP - ERC Occupational Safety & Health Education & Research Centers - T42</i>	

NIKKI KATALANOS

Health Resources and Services Administration	\$130,000
<i>Physician Assistant Training in Primary Care</i>	

ARTHUR KAUFMAN

Department of Health & Human Services / Agency for Healthcare Research & Quality	\$497,114
<i>HERO: New Mexico's Health Extension for Primary Care Transformation Care</i>	
New Mexico Department of Health	\$18,500
<i>New Mexico Immunization Coalition</i>	
Lawrence Leeman	\$33,734
<i>Anonymous Non-Profit Foundation Early Training Grant</i>	

MARTHA COLE MCGREW

New Mexico Children Youth & Family Department	\$700,000
<i>Professional Services</i>	
Blue Cross Blue Shield of New Mexico	\$219,564
<i>Care New Mexico Services</i>	
Bernalillo County Juvenile Detention Center	\$95,415
<i>Professional Physician Services</i>	
First Choice Community Healthcare	\$85,916
<i>Professional Services Agreement</i>	
First Choice Community Healthcare	\$54,080
<i>First Choice Community Healthcare</i>	
Central New Mexico Community College	\$37,467
<i>Outpatient Professional Services</i>	
Molina Healthcare of New Mexico	\$25,000
<i>Care Coordination Services</i>	
Molina Healthcare of New Mexico	\$25,000
<i>Care Coordination Services</i>	
Molina Healthcare of New Mexico	\$10,000
<i>Case Management</i>	

TASSY PARKER

Department of Health & Human Services / Indian Health Service	\$170,000
<i>American Indians Into Medicine</i>	
University of Wisconsin	\$29,191
<i>Healthy Children Strong Families: American Indian Communities Preventing Obesity</i>	

ROBERT L RHYNE JR.

University of North Carolina (American Cancer Society)	\$504,975
<i>Improving Colorectal Cancer Screening for Latinos in Primary Care</i>	
Department of Health & Human Services/Agency for Healthcare Research and Quality	\$291,693
<i>Health Extension Rural Office: Translating Research Into Localities</i>	

HELENE SILVERBLATT

Health Resources and Services Administration	\$274,181
<i>New Mexico Area Health Education Centers</i>	

KRISTINE TOLLESTRUP

New Mexico Department of Health	\$89,675
<i>New Mexico Public Health Learning Collaborative</i>	
Health Resources and Services Administration	\$1,987
<i>New Mexico Public Health Traineeship</i>	

NINA WALLERSTEIN

NIH/National Institute on Drug Abuse	\$171,183
<i>RezRIDERS Project and Program</i>	
National Congress of American Indians	\$159,733
<i>NARCH V Program at NCAI-PRC and University of New Mexico</i>	
Healthy Native Communities Partnership, Inc.	\$82,000
<i>Healthy Native Communities Partnership</i>	
San Francisco State University	\$32,375
<i>Distinguished Visiting Professor Agreement</i>	
Pueblo of Jemez	\$19,999
<i>Jemez JHHS Public Health Programs</i>	
NIH/National Institute on Drug Abuse	\$11,412
<i>RezRIDERS Project and Program</i>	

ROBERT WILLIAMS

National Institutes of Health	\$373,725
<i>Stereotyping in Medical Student Decision Making: presence, origins and solutions</i>	
Wayne State University	\$7,000
<i>Building Research Culture and Capacity with Quality Improvement</i>	



Miria Kano, PhD

Internal Medicine

ALLEN ADOLPHE

Gilead Sciences\$62,510
Clinical Trial - Phase III

Gilead Sciences\$2,634
Clinical Trial Agreement - Phase III: supplement

BINA AHMED

Lilly USA, LLC\$55,720
Clinical Trial - Phase I: supplement

ARORA SANJEEV

GE Foundation\$4,669,986
UNM Rural Access to Primary Care through Project ECHO

New Mexico Human Services Department\$931,140
Medicaid Match for Project ECHO

CDC Foundation\$200,000
ECHO Model in Community Health Centers

Gilead Sciences\$96,847
Clinical Trial - Phase III

Gilead Sciences\$96,847
Clinical Trial - Phase II

Synergy Enterprises, Inc\$92,000
Use of the ECHO Model to Disseminate NIDA/CTN Buprenorphine Blending Trainings

Genentech, Inc\$74,509
Clinical Trial

The Life Link\$50,000
Community Addictions Recovery Specialists Program

AbbVie\$46,255
Clinical Trial - Phase II

AbbVie\$20,926
Clinical Trial - Phase II: supplement

EDGAR BOEDEKER

U.S. Department of Veterans Affairs\$137,850
IPA: Chengru Zhu

New Mexico VA Health Care System\$134,216
IPA-Isaac Wyatt Byrd

MARK BURGE

Quintiles Laboratories\$1,321
Clinical Trial - Phase III: supplement

KATHLEEN COLLERAN

VisionQuest Biomedical\$146,285
Retinal Imaging via Community Health Workers

Merck & Company, Inc\$4,500
Clinical Trial - Phase III

RICHARD CROWELL

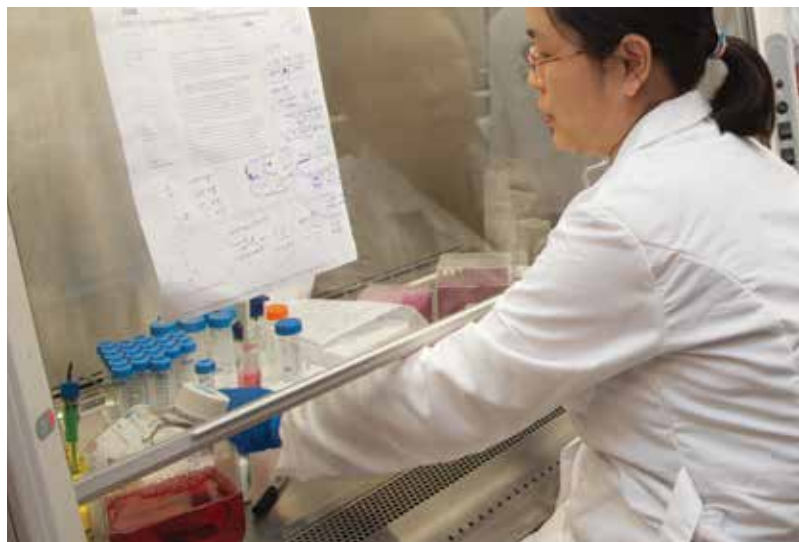
Lovelace Biomedical & Environmental Research Institute\$56,700
Factors for Epigenetic Silencing of Lung Cancer Genes

RAVI DURVASULA

Biomedical Research Institute of New Mexico\$51,694
Second Generation Paratransgenesis for Control of Pierce's Disease of Grapes

Howard Hughes Medical Institute\$39,000
Research Training Fellowships for Med Students - Adam Forshaw

Biomedical Research Institute of New Mexico\$4,601
Second Generation Paratransgenesis for Control of Pierce's Disease of Grapes



Shubong Guo, PhD

CARLA HERMAN

Donald W Reynolds Foundation\$250,000
Next Steps in Physicians' Training in Geriatrics

THERESA HEYNEKAMP

Cystic Fibrosis Foundation\$27,000
Program for Adult Care Excellence (PACE)

RICHARD HOFFMAN

Foundation for Informed Medical Decision Making\$37,542
Medical Editor

MICHELLE IANDIORIO

University of Colorado Health Sciences Center\$239,750
New Mexico AIDS Education and Training Center

DENECE KESLER

Health Resources and Services Administration\$202,388
Radiation Exposure Screening and Education Program

Health Resources and Services Administration\$150,000
Integrative Medicine Program

Lovelace Respiratory Research Institute\$75,000
Lovelace Respiratory Research Institute - Occupational Medicine Services

Johns Hopkins University\$10,000
Development of a Medical Screening Program for Former LANL & SNL Workers

New Mexico Department of Health\$6,000
New Mexico Occupational Surveillance Program

Lovelace Respiratory Research Institute\$6,000
Lovelace Respiratory Research Institute - Consulting Services

Honeywell Corporation\$2,500
Honeywell Aerospace of Albuquerque - Clinician Services

IRENA KING

Fred Hutchinson Cancer Research Center\$29,833
Multi-Level Intervention to Prevent Obesity in Low Income Working Adults (TREC)

WARREN LASKEY

DVA/Veteran's Administration Medical Center\$707,982
VA Interventional Cardiology

SAMUEL LEE

Astellas USA Foundation\$26,000
An In Vitro Analysis of Micafungin, Ethanol, and Doxycycline as Antifungal Lock Therapy Against Candida Albicans Biofilms



Christina Tyler, BSc; Samantha Goggin, BSc; and Ben Solomon, BSc

Internal Medicine (continued)

SAMUEL LEE (CONTINUED)

Astellas USA Foundation\$5,000
10th Annual Meeting of the South Central Medical Mycology Group

HENRY LIN

Biomedical Research Institute of New Mexico\$20,000
BRINM Research Support

THOMAS MA

NIH/National Institute of Diabetes and Digestive and Kidney Diseases ...\$310,727
TNF- α Regulation of Intestinal Paracellular Transport

U.S. Department of Veterans Affairs \$135,743
IPA-Shuhong Guo, PhD

U.S. Department of Veterans Affairs \$135,743
IPA-Rana Al-Sadi, PhD

GREGORY MERTZ

NIH/National Institute of Allergy and Infectious Diseases \$494,415
Andes Virus Transmission and Pathogenesis in Chile

National Institutes of Health\$21,974
Andes Virus Transmission and Pathogenesis in Chile

POPE MOSELEY

Albuquerque-AMG Specialty Hospital. \$130,340
Administrative Services Internal Medicine

Albuquerque Area Indian Health Service\$82,246
IHS Specialty Services

Zenith Administrators\$25,000
Outpatient Professional Services

ROBERT JOSEPH MUNK

NIH/National Library of Medicine\$39,403
NLM14: AIDS InfoNet 2012

TUDOR OPREA

Givaudan Flavors Corporation\$305,000
Givaudan Research Agreement- Year 5

University of Gothenburg\$36,000
Visiting Scientist Agreement (Oprea)

Evotec (US) Inc.....\$28,249
Subsetting Strategies for the Molecular Libraries Small Molecules Repository

Rosalind Franklin University of Medicine and Science.....\$11,665
Structural and Functional Analysis of Glucose Transporters

Rosalind Franklin University of Medicine and Science.....\$11,522
R01: Structural and Functional Analysis of Glucose Transporters

ARTI PRASAD

The Bell Group, Inc.....\$25,000
Professional Services: UNMMG Center for Life

The Bell Group, Inc.....\$25,000
Professional Services: UNMMG Center for Life (A2)

The Weil Foundation\$20,000
Sustaining Integrative Medicine in Residency in Internal Medicine at UNM

IMRAN ALI SAEED

Central New Mexico Community College.\$95,742
Agreement for Participation in the Respiratory Therapy Educational Program

DAVID SCHADE

NIH/National Institute of Diabetes and Digestive and Kidney Diseases. . \$312,291
Diabetes Prevention Program Outcomes Study- Phase 2

George Washington University \$271,951
The Glycemia Reduction Approaches for Diabetes: A Comparative Effectiveness Study

NIH/National Institute of Diabetes and Digestive and Kidney Diseases\$232,506
Diabetes Prevention Program Outcomes Study- Phase 2

Case Western Reserve University.....\$62,084
Epidemiology of Diabetes Intervention and Complications

Case Western Reserve University.....\$58,310
Epidemiology of Diabetes Intervention and Complications

NIH/National Institute of Diabetes and Digestive and Kidney Diseases. . . \$18,556
Diabetes Prevention Program Outcomes Study: NCI Sub-Study Supplement

University of South Florida\$2,000
Type 1 Diabetes TrialNet

WILMER SIBBITT JR

Indian Health Services. \$164,492
Albuquerque Indian Health Services Contract

AKSHAY SOOD

Cystic Fibrosis Foundation.....\$22,788
CF Care Center Program

CHRISTINE AILEEN STIDLEY

Lovelace Biomedical & Environmental Research Institute\$30,000
Statistical Support to Lung Cancer Programs

KARLA THORNTON

McCune Charitable Foundation.\$25,002
A Peer Education Program in New Mexico Prisons

Con Alma Health Foundation\$15,000
Prisoner Health is Community Health

MARK UNRUH

Dialysis Clinic, Inc..... \$783,020
Salary Support- Heather Ward

Dialysis Clinic, Inc..... \$444,939
DCI Biostatistician

DCI Donor Services..... \$117,546
DCI Biostatistician Supplement

DCI Donor Services.....\$67,118
ENaC as a Novel Mechanism for Hypertension and Volume Expansion in Type 2 Diabetes

Dialysis Clinic, Inc.....\$10,000
DCI Medical Directorship and QA

CAROLYN VOSS

New Mexico Department of Health <i>Provider Agreement for COH Children's Medical Services</i>	\$750,000
New Mexico Department of Health <i>Provider Agreement for COH Children's Medical Services</i>	\$750,000

BRUCE S WILLIAMS

Health Resources and Services Administration <i>Comprehensive HIV Early Intervention Services in Central/Northwestern New Mexico</i>	\$608,522
Health Resources and Services Administration <i>Coordinated HIV Services and Access to Research for Women, Infants, Children & Youth (Part D)</i>	\$468,400
New Mexico Department of Health <i>Ryan White Part B</i>	\$250,000
Health Resources and Services Administration <i>Comprehensive HIV Early Intervention Services in Central/Northwestern New Mexico- Part C</i>	\$124,344
New Mexico AIDS Services <i>Health Insurance Premium and Cost Sharing Assistance</i>	\$49,321

PHILIP ZAGER

Dialysis Clinic, Inc. <i>DCI Medical Directorship and QA</i>	\$715,105
NIH/National Institute of Diabetes and Digestive and Kidney Diseases <i>Blood Pressure in Dialysis Patients</i>	\$502,331

Molecular Genetics and Microbiology**KIRAN BHASKAR**

National Institutes of Health <i>The Role of Microglial-and Neuron-Specific My D88 Signaling in Tauopathies</i>	\$192,677
NIH/National Institute of Neurological Disorders and Stroke <i>The Role of Microglial-and Neuron-Specific My D88 Signaling in Tauopathies</i>	\$169,875
Alzheimer's Association <i>Role of Tau Protein in the Inflammation-Mediated Neurotoxicity</i>	\$84,266
NIH/National Institute of Neurological Disorders and Stroke <i>The Role of Microglial-and Neuron-Specific My D88 Signaling in Tauopathies</i>	\$12,269

JUDY CANNON

NIH/National Institute of Allergy and Infectious Diseases <i>The Role of PKCtheta in T Cell and T-ALL Migration</i>	\$339,750
NIH/National Institute of Allergy and Infectious Diseases <i>The Role of PKCtheta in T Cell and T-ALL Migration</i>	\$15,100
Northwestern University <i>The Fbar Protein in CIP4 in Wasp Dependent Thrombocytopenia</i>	\$7,550

BRYCE CHACKERIAN

NIH/National Institute of Allergy and Infectious Diseases <i>A VLP-based Platform for Vaccine Discovery</i>	\$298,980
--	-----------

VOJO DERETIC

NIH/National Institute of Allergy and Infectious Diseases <i>Pattern Recognition Receptors and Autophagy in Mtb Control in AIDS</i>	\$383,575
--	-----------

JEREMY EDWARDS

NIH/National Institute of General Medical Sciences <i>A Spatially Coarse-Grained, Rule-Based Framework for Modeling Large Molecular Aggregates on the Cell Membrane</i>	\$303,485
NIH/National Institute of General Medical Sciences <i>A Spatially Coarse-Grained, Rule-Based Framework for Modeling Large Molecular Aggregates on the Cell Membrane</i>	\$21,919

SCOTT NESS

NIH/National Cancer Institute <i>Alternative RNA Splicing and Variant Protein Products in Leukemia Outcome</i>	\$594,337
NIH/National Cancer Institute <i>Alternative RNA Splicing and Variant Protein Products in Leukemia Outcome</i>	\$553,060
National Institutes of Health <i>Mutation and Target Genes in Adenoid Cystic Carcinoma</i>	\$450,117

MARY ANN OSLEY

NIH/National Institutes of General Medical Sciences <i>Genetic Analysis of H2B Ubiquitylation in Yeast</i>	\$361,268
NIH/National Cancer Institute <i>Role of Histone H2B Ubiquitylation in DNA Replication</i>	\$109,252

MICHELLE OZBUN

NIH/National Cancer Institute <i>Entry of Oncogenic HPVs into Human Keratinocytes</i>	\$150,957
NIH/National Cancer Institute <i>Entry of Oncogenic HPVs into Human Keratinocytes</i>	\$132,842
Novartis <i>Cyclophilin Inhibition of HPV Infection</i>	\$39,504
NIH/National Cancer Institute <i>Entry of Oncogenic HPVs into Human Keratinocytes RFA: Supplement to Promote Diversity in Health-Related Research</i>	\$31,487
National Institutes of Health <i>Entry of Oncogenic HPVs into Human Keratinocytes</i>	\$25,208
NIH/National Cancer Institute <i>Entry of Oncogenic HPVs into Human Keratinocytes</i>	\$22,182
New Mexico Biopark Society <i>Detection of Elephant Endotheliotropic Herpesviruses Strains EEHV1A and EEHV1B in ABQ BioPark Elephants</i>	\$1,200

DAVID PEABODY

SAIC <i>VLP/Mimotope Screening for Anti-RH5 Monoclonal Antibodies</i>	\$53,146
SAIC <i>VLP/Mimotope Screening for Anti-RH5 Monoclonal Antibodies</i>	\$53,146
Sandia National Laboratories <i>Single-Chain Antibody Display on VLP's</i>	\$8,000
Sandia National Laboratories <i>Single-Chain Antibody Display on VLP's</i>	\$6,000



Levi Maston, BS and Katelyn Reinhart, BS

Molecular Genetics and Microbiology (continued)

XUOXIAN YANG

American Lung Association\$40,000
Counter-Regulation of Allergic Asthma

Neurology

VON ERIK BURTON

MedImmune, Inc. \$199,253
Clinical Trial Agreement

COREY FORD

Genentech, Inc. \$442,340
Clinical Trial - Phase III

Novartis Pharmaceuticals Corporation \$262,371
Clinical Trial - Phase III

University of California, Los Angeles \$179,079
A Double-Blind, Placebo controlled Trial of Estril Treatment in Women with Multiple Sclerosis: Effect on Cognition

Acorda Therapeutics, Inc. \$110,011
Impaired Interhemispheric Relationships in MS: Evaluation by MEG, EEG, and MRI-Remediation by Dalfampridine

Novartis\$94,930
Clinical Trial

Teva Pharmaceutical Industries, LTD\$76,175
Clinical Trial Agreement - Phase IV

Anonymous Sponsor\$30,115
Clinical Trial Agreement

PPD Development\$22,093
Clinical Trial Agreement - Phase II

Genzyme Corporation\$20,470
Clinical Trial - Phase III

BRANKO HUISA

PhotoThera, Inc.\$50,000
Neuroprotective Effects of Transcranial Laser Therapy in a Novel Rat Model of Chronic Small Vessel Disease

University of Texas\$17,875
Clinical Trial Agreement Phase II

MOLLY KING

Yale University\$3,292
Insulin Resistance Intervention After Stroke (IRIS) Trial

JIM LIU

NIH/National Institute of General Medical Sciences \$967,540
Integrative Program in CNS Pathophysiology Research

NIH/National Institute of General Medical Sciences\$69,877
Integrative Program in CNS Pathophysiology Research

LESLIE MORRISON

University of California, San Francisco \$230,106
Modifier Genes as Biomarkers for Cerebral Cavernous Malformation Progression

Muscular Dystrophy Association\$60,000
Pediatrics-MDA Clinics

University of Rochester Medical Center\$12,080
FOR-DMD: Double-Blind Randomized Trial to Optimize Steroid Regimen in Duchenne MD

PAUL SUROJIT

NIH/National Institute of Neurological Disorders and Stroke \$330,313
Role of Brain Specific Tyrosine Phosphatase STEP in Neuroprotection and Death

JOHN PHILIPS

National Institutes of Health \$215,922
Optimization of Incidental Findings Disclosure to Research Subjects

The Mind Research Network \$119,159
Medical Director

NIH/National Institute of Neurological Disorders and Stroke\$15,596
Optimization of incidental findings disclosure to research subjects

The Mind Research Network\$2,571
Medical Director

SARAH RICHARDSON PIRIO

American Parkinson Disease Association\$28,500
APDA Information and Referral Center

STEFAN POSSE

Technische Universität Dresden\$11,000
Volitional Control of Brain Activity: Effect of Neuro Feedback on Emotional Reactivity

GARY ROSENBERG

NIH/National Institute of Neurological \$500,832
Disorders and Stroke

The Mind Research Network \$109,460
MRN Administrative Operations

U.S.-Israel Binational Science Foundation\$21,005
Blood-Brain Barrier Permeability Abnormalities and Post Stroke Cognitive Decline

Gallup Indian Medical Center\$18,480
Pediatric Neurology On-Site Clinic Services

Eastern New Mexico Medical Center\$5,000
Professional Services

JENNIFER ANN VICKERS

New Mexico Department of Health \$131,875
Children's Medical Services

YI YANG

American Heart Association \$140,000
Neurovascular Remodeling After Ischemic Stroke

SARAH YOUSSEF

Muscular Dystrophy Association \$180,000
Outcome Measures in Oculopharyngeal Muscular Dystrophy

Muscular Dystrophy Association \$153,000
Adult-MDA Clinics



Tarik Alboud, MD

Neurosciences

ANDREA ALLAN

NIH/National Institute of Environmental Health Sciences \$302,323
Epigenetic Changes in Glucocorticoid Receptor Gene Due to Arsenic Exposure

JONATHAN BRIGMAN

National Institutes of Health \$165,718
Corticostratial Networks and NMDAR Medication of Habitual and Flexible Action in the Mouse

LEE ANNA CUNNINGHAM

NIH/National Institute on Alcohol Abuse and Alcoholism \$320,581
Prenatal Alcohol and Adult Hippocampal Neurogenesis - MPI

ERIN MILLIGAN

NIH/National Institute on Drug Abuse \$308,835
Spinal Neuroimmune Mechanisms Underlying IL-10 Gene Therapy for Pain Control

DONALD L PARTRIDGE

Sandia National Laboratories \$5,000
A Comprehensive Approach to Decipher Biological Computation to Achieve Next Generation High-Performance Exascale Computing

NORA PERRONE-BIZZOZERO

NIH/National Institute on Drug Abuse \$370,220
Competing Roles of microRNAs and RNA-Binding Proteins in Drug Addiction

NIH/National Institute on Drug Abuse \$181,200
Impact of miR-495 vs. HuD in the Control of Addiction-Related Genes and Behavior

The Mind Research Network \$72,892
Mining the Genomewide Scan: Genetic Profiles of Structural Loss in Schizophrenia

NIH/National Institute on Drug Abuse \$24,681
Competing Roles of MicroRNA's and RNA-Binding Proteins in Drug Addiction

DANIEL D SAVAGE II

National Institutes of Health \$317,375
Fetal Ethanol Effects on Histaminergic Regulation of Neurotransmission

NIH/National Institute on Alcohol Abuse and Alcoholism \$15,262
Consequences of Prenatal Ethanol Exposure and Maternal Stress on Offspring

CLAUDE SHUTTLEWORTH

NIH/National Institute of Neurological Disorders and Stroke \$307,900
Spreading Depolarizations and Post-Ischemic Injury

NIH/National Institute of Neurological Disorders and Stroke \$32,058
Adenosine Receptor Activation in Spreading Depolarization and Ischemic Injury

CARLOS VALENZUELA

NIH/National Institute on Alcohol Abuse and Alcoholism \$302,251
Alcohol and Developing Neuronal Circuits

NIH/National Institute on Alcohol Abuse and Alcoholism \$121,110
Alcohol Research Training in Neurosciences

NIH/National Institute on Alcohol Abuse and Alcoholism \$10,075
Alcohol and Developing Neuronal Circuits

JASON PORTER WIECK

NIH/National Institute on Alcohol Abuse and Alcoholism \$41,134
Functional Integration and Plasticity of Human ESC-Derived Neurons

Neurosurgery

MARC MALKOFF

University of Cincinnati \$87,603
Ethnic/Racial Variations of Intracerebral Hemorrhage Clinical (FFS)

Cerevast Therapeutics, Inc. \$68,068
Clinical Trial - Phase III



Danelle Callan, MA; Virginia Chavez; Gina Cardinali, MSW

University of Cincinnati \$55,124
Ethnic/Racial Variations of Intracerebral Hemorrhage Administrative (CR)

EDWIN NEMOTO

Rio Grande Neurosciences, Inc. \$229,955
PEMF in TBI and CVA and Neuroinflammation

Rio Grande Neurosciences, Inc. \$28,298
Clinical Support Services

MARTINA STIPLER

University of Arizona \$591,000
Progesterone for the Treatment of Traumatic Brain Injury: ProTECT III Clinical Trial - Phase III

University of Arizona \$50,214
Progesterone for the Treatment of Traumatic Brain Injury: ProTECT III Clinical Trial - Phase III

HOWARD YONAS

DVA/Veteran's Administration Medical Center \$167,133
VA Neurosurgery Services

New Mexico Tumor Registry

CHARLES WIGGINS

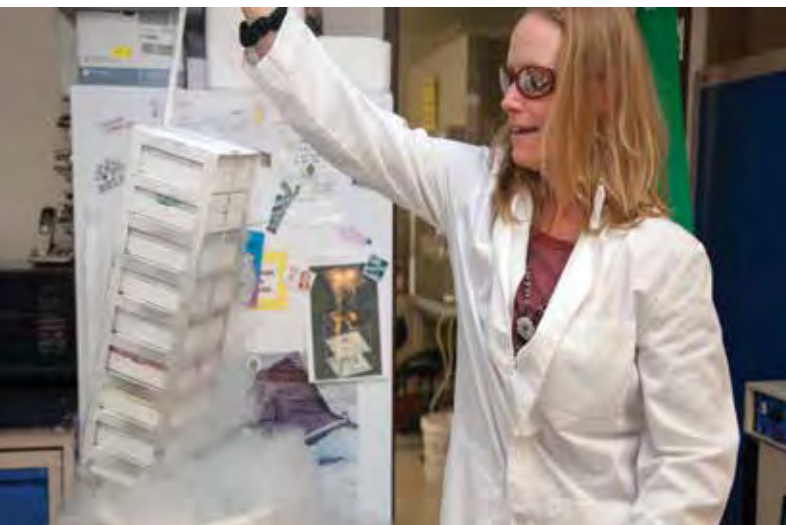
NIH/National Cancer Institute \$182,518
Supplemental Funding for Management of the Cherokee Nation Cancer Registry

Memorial Medical Center \$50,000
Memorial Medical Center Abstracting Services

NIH/National Cancer Institute \$23,070
SEER RRSS: Patterns of Care, Diagnosis

New Mexico Department of Health \$6,330
Services for DOH BCC and CRC Programs

U.S. Department of Justice \$2,000
Radiation Exposure Compensation Program



Jennifer Gillette, PhD

Obstetrics and Gynecology

EVE ESPEY

Anonymous Non-Profit Foundation \$338,109
Fellowship in Family Planning

SARAH FOSTER ADAMS

New Mexico Cancer Care Alliance \$70,001
Clinical Trial Phase II

YUKO KOMESU

NIH/National Center for Complementary and Alternative Medicine \$387,874
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence:
An RCT

NIH/National Center for Complementary and Alternative Medicine \$363,702
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence:
An RCT

Society of Urologic Nurses & Association \$12,000
Neuro-sacral Modulation on the Overactive Bladder Patient: Continuous vs.
Cycling Programming

TONY OGBURN

Planned Parenthood of New Mexico \$25,000
Professional Services Agreement

WILLIAM RAYBURN

Lovelace Health System \$1,233,614
Professional Services

Albuquerque Area Indian Health Service \$96,534
IHS Specialty Services

First Choice Community Healthcare \$69,788
Midwifery Services

New Mexico Department of Health \$39,000
High Risk Prenatal Care

REBECCA ROGERS

Women and Infants' Hospital of Rhode Island \$41,448
Tailored Measure for Female Urinary Incontinence

RTI International \$96,133
Capitation for PFDN Center Grant

HARPAL RAMEET SINGH

Society of Family Planning \$67,887
The Voice of Latino Adolescent: Barriers to use of Contraception, a Focus Group

Office of the Medical Investigator

BARRY MICHELLE

New Mexico Department of Health \$150,275
Mass Fatality Planning

New Mexico Department of Health \$30,000
Medical Examiner Surveillance for Bioterrorism Mortality

WENDY HONEYFIELD

New Mexico Department of Health \$15,442
New Mexico Sudden Unexpected Infant Death Registry

KURT NOLTE

National Association of Medical Examiners \$135,208
Compensation for Executive Vice President

Portland State University \$16,279
Acute Alcohol Use and Suicide

Portland State University \$16,274
Acute Alcohol Use and Suicide

LORI PROE

New Mexico Department of Health \$41,822
New Mexico Violent Death Reporting System

ROSS ZUMWALT

Veteran's Administration Medical Center \$73,621
Provide Autopsy Services for Prisoners of War

Orthopaedics

BURKE GURNEY

Biomedical Research Institute of New Mexico \$11,463
Exercise Interventions During Voluntary Weight Loss in Older Adults

DALE HOEKSTRA

Langford Consulting, Inc. \$14,820
Jones Professional Services Agreement

ELIZABETH SZALAY

Lovelace Health System \$5,100
Lovelace Health Systems Committee Member Services Agreement

GEHRON TREME

Synthes, Inc. \$6,885
Basic Principles & Techniques of Operative Fracture Management Course for
Residents

Synthes, Inc. \$6,625
Residents to Attend Basic and Advanced Principles & Techniques of Operative
Fracture Management Courses

Stryker Orthopaedics \$1,643
Educational Grant- Orthopaedic Trauma Association Annual Meeting

WASCHER DANIEL

Smith & Nephew, Inc Smith & Nephew, Inc \$22,500
Educational Grant-Fellowship Support Program 2012-2013

Arthrex, Inc. \$15,000
Arthrex Sports Fellowship Grant/Educational Grant

U.S. Department of Justice \$9,000
U.S. Department of Justice Expert Witness Case- Williams vs. U.S.A.

U.S. Department of Justice \$6,500
US Department of Justice Expert Witness- Sanders et al. vs. U.S.A.

U.S. Department of Justice \$5,870
Expert Witness- Tsosie v. USA

Pathology

MICHELLE BARRY

Intersociety Council for Pathology Information\$1,000
Medical Student Interest Group

ELAINE BEARER

NIH/National Institute of Mental Health \$496,529
Live Imaging of Brain Circuitry in Mouse Models of PTSD

VITTORIO CRISTINI

University of Southern California \$121,926
Multi-Scale Complex Systems Transdisciplinary Analysis of Response to Therapy

Methodist Hospital Research Institute \$108,291
Center for Systematic Modeling of Cancer Development

Methodist Hospital Research Institute\$45,586
Center for Systematic Modeling of Cancer Development

Baylor College of Medicine\$45,398
Postdoc for the Center for Systematic Modeling of Cancer Development

The Methodist Hospital\$43,776
Center for Transport Oncophysics (PSOC)

The Methodist Hospital\$43,776
Center for Transport Oncophysics (PSOC)

Methodist Hospital Research Institute\$24,966
Center for Systematic Modeling of Cancer Development (Lab Computational Component)

University of Texas HSC Houston\$14,757
Texas Center for Cancer Nanomedicine

The Methodist Hospital\$7,641
Predictive Physical Modeling of Chemotherapeutic Drug Transport and Tumor Response

KENDALL CROOKSTON

Blood Systems Foundation\$82,162
Transfusion Medicine Fellowship

JENNIFER GILLETTE

American Heart Association \$308,000
Manipulation of Hematopoietic Stem Cell/Niche Interactions for the Improvement of Stem Cell Transplantation

BRIAN HJELLE

National Ecological Observatory Network\$95,130
Services Agreement

RICHARD LARSON

Manhattan Scientifics, Inc.\$1,350,000
Clinical Trial to Validate Use of Nanoparticles

Veteran's Administration Medical Center \$145,308
Institutional Review Board Services

Veteran's Administration Medical Center\$29,943
Institutional Review Board Services

DIANE LIDKE

NIH/National Institute of General Medical Sciences \$256,738
Single Molecule Imaging to Quantify FCR1 Signaling Dynamics

National Science Foundation \$158,871
Elucidating the Regulation Mechanisms of ErbB Signaling using Quantitative Imaging

University of Texas\$37,750
Mechanisms of Apoptotic Calcium Signaling

West Virginia University\$20,803
Spatial Monte Carlo Models for BEGF Binding on the Cell Membrane

GEORGE TEGOS

Department of Defense / Defense Threat Reduction Agency\$2,124,572
Targeting Multi-drug Efflux Systems in
Francisella Tularensis & Burkholderia Pseudomallei

ANGELA WANDINGER-NESS

NIH/National Institute of General Medical Sciences \$807,973
Academic Science Education and Research Training (ASERT)

National Science Foundation \$274,006
Chemical Probes for Assessing Rab7 and Accessory Protein Function

NIH/National Cancer Institute\$72,977
Capitalizing on NSAID Enantiomer Selectivity for Cancer Prevention and Therapy (PQ5) (MPI)

NIH/National Institute of Dental and Craniofacial Research\$31,146
OFD1 as Constituent of a Multimeric Protein Complex in Odontoblast Primary Cilia

National Science Foundation\$6,750
REU 2013 Chemical Probes and Assessing RAB7 and Accessory Protein Function

The American Society for Cell Biology\$1,200
Financial Support for One-Day Local Meeting Organized by Post-Docs

COSETTE WHEELER

NIH/National Institute of Allergy and Infectious Diseases\$2,899,170
University of New Mexico Interdisciplinary HPV Prevention Center

NIH/National Cancer Institute\$1,149,492
New Mexico HPV Outcomes, Practice Effectiveness and Surveillance

NIH/National Cancer Institute \$839,202
New Mexico HPV Outcomes, Practice, Effectiveness and Surveillance

Roche Molecular Systems, Inc.\$84,327
Automated HPV Genotyping

THOMAS WILLIAMS

TriCore Reference Laboratories\$2,184,609
Medical Direction

United Blood Services \$282,720
Professional Services

Crownpoint Healthcare Facility\$38,400
Crownpoint Healthcare Facility-Laboratory Directorship

Memorial Hospital of Texas County\$28,536
Professional Services



Michael Wilson, PhD

Pathology (continued)

BRIDGET WILSON

NIH/National Institute of Allergy and Infectious Diseases	\$348,999
<i>Mapping for Specialized Domains for FcεRI Signaling & Internalization</i>	
NIH/National Cancer Institute	\$290,608
<i>MSM Mapping and Modeling of ErbB Receptor Membrane Topogra</i>	
Los Alamos National Laboratory	\$113,250
<i>Three-Dimensional Molecular Tracking of IgE-Fc3RI in Live Cells</i>	
NIH/National Institute of Allergy and Infectious Diseases	\$15,510
<i>Mapping for Specialized Domains for FcεRI Signaling & Internalization</i>	

STEPHEN YOUNG

Nano MR	\$193,125
<i>Specimen Acquisition Study to Evaluate the NanoMR Pathogen Detection System</i>	

ROSS ZUMWALT

New Mexico Crime Victims Reparation Commission	\$53,655
<i>Grief Intervention for Homicide Survivors</i>	
US Attorney General's Office	\$50,000
<i>Expert Witness Testimony for US Attorney</i>	
Eastern New Mexico Medical Center	\$3,848
<i>Center Case Rate Agreement</i>	

Pediatrics

ROBERT ANNETT

NIH/National Institute of Child Health and Human Development . . .	\$440,267
<i>National Children's Study NIH-NICHD-NCS-2012-15</i>	
The Mind Research Network	\$40,774
<i>Preterm Infants Mu=Rhythm Suppression Evaluation Study</i>	

TANYA BAKER-MCCUE

New Mexico Human Services Department	\$206,400
<i>Mi Via</i>	
New Mexico Department of Health	\$30,000
<i>Info Center Medical Home Portal</i>	
New Mexico Developmental Disabilities Planning Council	\$15,000
<i>Post-Secondary Education</i>	
New Mexico Developmental Disabilities Planning Council	\$10,000
<i>Post Secondary Education</i>	
New Mexico Developmental Disabilities Planning Council	\$5,000
<i>Info Fact Sheets</i>	



Susan Tigert, PhD

New Mexico Developmental Disabilities Planning Council	\$2,500
<i>New Mexico LEND-Legislative Advocacy Seminar</i>	

SOPHIE BERTRAND

New Mexico Children Youth & Family Department	\$5,792
<i>New Mexico Special Quest Leadership Team</i>	

KOH BOAYUE

St. Baldrick's Foundation	\$60,500
<i>Infrastructure and Education Grant Request</i>	
Children's Hospital of Philadelphia	\$44,500
<i>Clinical Trial</i>	
Children's Hospital of Philadelphia	\$37,500
<i>Clinical Trial - Work Order INDUSTRY</i>	
Children's Hospital of Philadelphia	\$37,000
<i>Per Case Reimbursement: NIH COG Grant-Work Order-Non Industry</i>	
Children's Hospital of Philadelphia	\$14,500
<i>Clinical Trial-Industry</i>	
Children's Hospital of Philadelphia	\$5,000
<i>Clinical Trial - Phase II</i>	
Children's Hospital of Philadelphia	\$1,250
<i>Clinical Trial - Non-Industry</i>	

JOHN BRANDT

Presbyterian Healthcare Services	\$76,000
<i>Pediatric Nephrology On-Call Services</i>	

ANTHONY CAHILL

New Mexico Human Services Department	\$250,000
<i>Increasing the Quality of Life of New Mexicans with Brain Injuries and Caregivers Through Effective Support Services</i>	
New Mexico Governor's Commission on Disability	\$100,000
<i>Support for the Southwest Disability Conference</i>	
New Mexico Governor's Commission on Disability	\$14,720
<i>Support for the Southwest Disability Conference</i>	
New Mexico Developmental Disabilities Planning Council	\$12,500
<i>Stipends for New Mexicans with Disabilities at the Southwest Disability Conference</i>	

CAROL CLERICUZIO

University of California, San Diego	\$15,000
<i>Prospective Follow-Up of Pregnancy Exposure to Humira</i>	

LORETTA CORDOVA DE ORTEGA

New Mexico Department of Health	\$317,000
<i>Children's Medical Services Outreach Clinics Projects</i>	
New Mexico Department of Health	\$300,000
<i>CMS Provider Agreement</i>	
Molina Healthcare of New Mexico	\$60,000
<i>In-Home Assessments</i>	
Alta Vista Regional Hospital	\$50,000
<i>Professional Services</i>	
Children's National Medical Center	\$40,000
<i>Professional Services</i>	
Gallup Indian Medical Center	\$12,000
<i>Pediatric Dysmorphology On-site Clinical Services</i>	
Gallup Indian Medical Center	\$10,000
<i>Pediatric Endocrinology Services</i>	
Taos Clinic for Children and Youth	\$10,000
<i>Professional Services via Telemedicine</i>	
PHC - Las Cruces, Inc.	\$4,728
<i>Professional Services/Consultations</i>	

MARK CROWLEY

San Juan Regional Medical Center	\$30,197
<i>Professional Services Agreement</i>	
Presbyterian Healthcare Services	\$24,952
<i>Professional Services (ECMO)</i>	

THERESA CRUZ

New Mexico Department of Health	\$79,999
<i>Program Evaluation for Improvement in Obesity Prevention Efforts</i>	
New Mexico Department of Health	\$20,923
<i>Prevention Research Center Sexual Violence Prevention Technical Assistant Project</i>	

LEA DAVIES

Health Resources and Services Administration	\$295,571
<i>New Mexico Pediatric Pulmonary</i>	
Gilead Sciences	\$51,285
<i>Clinical Trial - Phase III - GS-US-205-0170</i>	
Cystic Fibrosis Foundation	\$37,122
<i>Cystic Fibrosis Center of New Mexico - CF Registry</i>	

SALLY DAVIS

Health & Human Services/Centers for Disease Control and Prevention	\$615,000
<i>New Mexico Department of Health</i>	
New Mexico Department of Health	\$127,857
<i>ACL School Based Health Centers Projects</i>	
New Mexico Department of Health	\$75,000
<i>Team Outreach Program</i>	
Albuquerque Area Indian Health Service	\$65,780
<i>Albuquerque Area Indian Health Service</i>	
Santa Fe Community Foundation	\$38,000
<i>Studying Trails Enhancement Plans: Health Impact Assessment</i>	
New Mexico Primary Care Association	\$30,000
<i>Integrated Medicaid Enrollment</i>	
New Mexico Department of Health	\$25,000
<i>Implementing Evidence-Based Recommendations to Increase Physical Activity in Communities: Lessons Learned from the Field</i>	
New Mexico Department of Health	\$10,550
<i>Implementing Evidence-Based Recommendation to Increase Physical Activity in Communities: Lessons Learned from The Field</i>	

BETH M GOENS

Gallup Indian Medical Center	\$30,000
<i>Pediatric Cardiology On-Site Clinic Services</i>	
VisionQuest Biomedical	\$10,000
<i>3D Ultrasound for Pediatric Cardiology</i>	
Ben Archer Health Center, Inc.	\$550
<i>Professional Service Agreement</i>	

JESSICA ROSE GOODKIND

Anonymous Non-Profit Foundation	\$50,000
<i>Interdisciplinary Advocacy for Low Income, High-Risk Families</i>	

RANDY HEIDENREICH

New Mexico Department of Health	\$116,472
<i>CMS Newborn Screening</i>	
Northern Navajo Medical Center	\$4,800
<i>Pediatric Fetal Alcohol Syndrome Clinic Services</i>	
Northern Navajo Medical Center	\$4,800
<i>Pediatric Genetic Clinic Services</i>	

ANDREW HSI

New Mexico Department of Health	\$86,500
<i>DDSD FIT</i>	



Virginia Severns, MS

PATRICIA KEANE

New Mexico Human Services Department	\$419,000
<i>CHILE Plus-Nutrition Ed Program with Preschool Children and Their Families & Social Marketing</i>	
Robert Wood Johnson Foundation	\$90,000
<i>Healthy Kids, Healthy Cuba</i>	

CATHERINE MCCLAIN

New Mexico Department of Health	\$2,502,933
<i>Autism Programs</i>	
New Mexico Human Services Department	\$2,000,000
<i>Improving Quality (75/25 & 50/50 Medicaid Match) Supporting Child Development through Evidence-Based Practices</i>	
New Mexico Human Services Department	\$2,000,000
<i>Improving Quality (75/25 & 50/50 Medicaid Match) Supporting Child Development through Evidence-Based Practices</i>	
New Mexico Department of Health	\$1,269,750
<i>Early Childhood Evaluation Program</i>	
New Mexico Department of Health	\$878,931
<i>MFCMP Program Budget</i>	
Navajo Nation	\$716,888
<i>Growing in Beauty Program Therapy Services</i>	
New Mexico Public Education Department	\$693,048
<i>PED Contract</i>	
Maternal and Child Health Bureau	\$640,220
<i>New Mexico LEND: Leadership Education in Neurodevelopmental Disabilities</i>	
Health & Human Services/Administration for Community Living	\$554,000
<i>ACL: University Center for Excellence in DD Education</i>	
New Mexico Department of Health	\$406,840
<i>Early Childhood Network</i>	
New Mexico Department of Health	\$212,500
<i>Improving the Quality of Life of New Mexico Youth with Disabilities in Transition</i>	
New Mexico Department of Health	\$199,100
<i>Improving the Quality of Life of New Mexico Youth with Disabilities in Transition</i>	
Utah State University	\$136,475
<i>Indian Children's Program</i>	
Utah State University	\$136,475
<i>Indian Children's Program - Amendment # 11</i>	
New Mexico Department of Health	\$127,274
<i>New Mexico Safe Program</i>	
New Mexico Department of Health	\$111,607
<i>DDSD Statewide Training Database</i>	



Erin Crossey, BA

Pediatrics (continued)

CATHERINE MCCLAIN (CONTINUED)

New Mexico Department of Health	\$106,191
<i>Project SET</i>	
New Mexico Developmental Disabilities Planning Council	\$80,000
<i>InfoNet/BabyNet</i>	
New Mexico Department of Health	\$76,000
<i>Medically Fragile Program Contract</i>	
New Mexico Developmental Disabilities Planning Council	\$75,000
<i>InfoNet-Medicaid</i>	
New Mexico Department of Health	\$19,238
<i>Deaf-Blind Match</i>	
New Mexico Developmental Disabilities Planning Council	\$500
<i>DDPC Logo for Contractors</i>	

JANE MCGRATH

New Mexico Human Services Department	\$1,100,000
<i>Envision New Mexico: The Initiative for Child Healthcare Quality</i>	
New Mexico Department of Health	\$292,857
<i>School Based Health Center Health Provision in the Schools</i>	
OptumHealth New Mexico	\$236,987
<i>School Based Health Centers Behavioral Health Quality Improvement</i>	
New Mexico Department of Health	\$200,000
<i>Office of School and Adolescent Health</i>	
New Mexico Department of Health	\$75,000
<i>Teen Outreach Program (TOP)</i>	
HealthInsight New Mexico.	\$60,000
<i>QTIP</i>	
Youth Development, Inc.	\$30,000
<i>UNM SBHC Support</i>	
New Mexico Department of Health	\$30,000
<i>Albuquerque School-Based Health Centers Project</i>	
Albuquerque Public Schools.	\$20,000
<i>Envision New Mexico: The Initiative for Child Healthcare Quality</i>	
New Mexico Department of Health	\$5,000
<i>Training CMS Providers</i>	
New Mexico Department of Health	\$5,000
<i>Coordinating Care via UNM HSC Telehealth Resources</i>	

JAMES MCKINNELL

Oregon Health & Science University.	\$32,000
<i>Regional Hemophilia Network-Mountain States</i>	
University of Colorado – Denver	\$30,190
<i>Prevention of Complication in Hemophilia Through HTCS</i>	

SHIRAZ MISHRA

National Institutes of Health	\$238,193
<i>New Mexico FRESH: New Mexico's Future Researchers Exploring Science and Health</i>	
National Institutes of Health	\$13,233
<i>New Mexico FRESH: New Mexico's Future Researchers Exploring Science and Health</i>	

MARCIA MORIARTA

New Mexico Children Youth & Family Department.	\$439,400
<i>Nurse Family Partnership</i>	
New Mexico Children Youth & Family Department.	\$350,000
<i>Parents as Teachers</i>	
New Mexico Children Youth & Family Department	\$324,000
<i>VISION</i>	
New Mexico Children Youth & Family Department.	\$300,000
<i>Quality Child Care</i>	
New Mexico Children Youth & Family Department.	\$238,368
<i>Nurse-Family Partnership (NFP) Addendum</i>	
New Mexico Children Youth & Family Department.	\$227,500
<i>Home Visiting Training</i>	
Albuquerque Public Schools.	\$142,624
<i>APS Safe Schools Infant Mental Health</i>	
Albuquerque Public Schools.	\$112,440
<i>APS Safe Schools Home Visiting</i>	
New Mexico Children Youth & Family Department.	\$81,000
<i>VISION</i>	

ROBIN OHLS

National Institutes of Health	\$396,982
<i>Brain Imaging and Developmental Follow-up of Infants Treated with Erythropoietin</i>	
CureDM Group Holdings, LLC.	\$39,460
<i>Developmental of Human Fetal Pancreatic Cell Assays</i>	
University of Utah	\$24,167
<i>Darbe Administration in Newborns Undergoing Cooling for Encephalopathy (DANCE)</i>	
National Institutes of Health	\$21,612
<i>Brain Imaging and Developmental Follow-up of Infants Treated with Erythropoietin</i>	

PAT OSBOURNE

Albuquerque Public Schools.	\$335,000
<i>APS Consultations</i>	
U.S. Department of Education	\$100,912
<i>Project for New Mexico Children and Youth Who are Deaf-Blind</i>	
Rio Rancho Public Schools.	\$50,160
<i>Rio Rancho Consultation</i>	
New Mexico Developmental Disabilities Planning Council	\$37,500
<i>Partners in Policymaking</i>	
New Mexico Developmental Disabilities Planning Council	\$37,500
<i>Partners in Policymaking</i>	
Santa Fe Public Schools	\$25,652
<i>Santa Fe Consultations</i>	
New Mexico Developmental Disabilities Planning Council	\$25,000
<i>Partners in Policymaking Amendment # 1</i>	
Cuba Independent Schools.	\$23,235
<i>Cuba Consultations</i>	

Peñasco Independent Schools	\$14,352
<i>Peñasco Consultation</i>	
Mora Independent Schools	\$14,152
<i>Mora Consultation</i>	
Mora Independent Schools	\$5,505
<i>Mora Consultation</i>	
Rio Rancho Public Schools	\$2,750
<i>Rio Rancho Consultation</i>	

JANET PAGE- REEVES

Blue Cross Blue Shield of New Mexico	\$40,000
<i>The WellRx Initiative</i>	

MARK PEDROTTY

Hidalgo Medical Services	\$25,000
<i>Tele - Medicine Services</i>	
Rio Rancho Public Schools	\$15,000
<i>Professional Services</i>	

LINDA PEÑALOZA

New Mexico Department of Health	\$156,931
<i>Youth, Risk, Resiliency Survey Project (YRRS)</i>	
New Mexico Department of Health	\$148,534
<i>Youth, Risk, Resiliency Survey Project (YRRS)</i>	
W.K. Kellogg Foundation	\$140,000
<i>Risk Assessment Project for Students (RAPS)</i>	
New Mexico Department of Health	\$74,905
<i>HEART Evaluation</i>	
New Mexico Human Services Department	\$39,094
<i>SYNAR</i>	
New Mexico Public Education Department	\$15,317
<i>Public Education Department Incentives</i>	
Santa Fe Public Schools	\$1,000
<i>Participation in the School Tobacco Policy Project</i>	

HENGAMEH RAISSY

Avisa Pharma, Inc.	\$170,748
<i>Clinical Trial - Phase III</i>	
Parexel International	\$50,023
<i>Clinical Trial - Phase IV</i>	
Parexel International	\$50,023
<i>Clinical Trial - Phase IV</i>	
Vertex Pharmaceuticals Incorporated	\$39,917
<i>Clinical Trial - Phase III</i>	

ALIYA REEVE

New Mexico Department of Health	\$968,804
<i>Continuum of Care-Primary</i>	
New Mexico Department of Health	\$52,750
<i>Continuum of Care-Mortality</i>	

VICTOR STRASBURGER

New Mexico Department of Health	\$414,755
<i>Pediatric Services for Sequoyah Adolescent Treatment Center Patients</i>	

KRISTI WATTERBERG

NIH/National Institute of Child Health and Human Development ...	\$264,952
<i>NICHD Cooperative Multicenter Neonatal Research Network</i>	
RTI International	\$21,321
<i>Clinical Trial - TOP Subaward</i>	
NIH/National Institute of Child Health and Human Development	\$14,424
<i>NICHD Cooperative Multicenter Neonatal Research Network</i>	

Johns Hopkins University	\$5,000
<i>GFAP Biomarker of Whole Body Cooling Outcome and Efficacy in the Neonate with HIE</i>	

CARLA SUE WILHITE

University of Texas Health Center at Tyler	\$19,806
<i>Pressure Mapping on Tractor Seats for Operators with Paraplegia</i>	

STUART WINTER

New Mexico Department of Health	\$15,000
<i>CMS Outreach - Camp Enchantment</i>	
Children's Hospital of Philadelphia	\$15,000
<i>Clinical Trial - Phase III</i>	

CRAIG WONG

National Institutes of Health	\$569,419
<i>Pediatric Investigation for Genetic Factors Associated with Renal Progression</i>	
The Children's Mercy Hospital	\$30,075
<i>CKiD Steering Committee</i>	
The Children's Mercy Hospital	\$14,854
<i>CKiD Clinical-Per Patient 04-0037-Amendment #11</i>	

Psychiatry

STEVEN ADELSHEIM

OptumHealth New Mexico	\$500,000
<i>New Mexico Consortium for Behavioral Health, Training & Research Developmental Support/Center for Rural & Community Behavioral Health (CRCBH/CBHTR)</i>	
New Mexico Human Services Department	\$142,348
<i>Behavioral Health Consultant</i>	
Mescalero Apache Schools	\$55,000
<i>Mescalero SBHC (School-Based Health Center Project)</i>	
La Buena Vida	\$44,342
<i>La Buena Vida</i>	
Feinstein Institute for Medical Research	\$32,561
<i>Clinical Trial Agreement</i>	
Feinstein Institute for Medical Research	\$29,631
<i>ARRA: Clinical Trial Agreement</i>	
Feinstein Institute for Medical Research	\$19,650
<i>ARRA: Clinical Trial Agreement</i>	
Feinstein Institute for Medical Research	\$9,628
<i>Clinical Trial Agreement</i>	



Essence Hand, BS/BA

Psychiatry (continued)

CHERYL AINE

The Mind Research Network\$78,847
IA-Aine-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

DEBORAH ALTSCHUL

San Felipe Pueblo \$800,000
San Felipe System of Care - Helping Our People: Advocating Hope

W.K. Kellogg Foundation \$538,404
Kellogg Mapping & Evaluation Consortium

New Mexico Children Youth & Families Department \$356,855
CYFD System of Care

San Felipe Pueblo\$69,688
San Felipe Home Visiting Program

Native American Pueblo Parent Resources, Inc.\$25,000
Home Visiting

Native American Pueblo Parent Resources, Inc.\$24,534
Home Visiting

PAMELA ARENELLA

Talaria, Inc.\$41,827
Adaptive Goal-directed Adherence Tracking and Enhancement, SBIR Phase II, NIAA 10-01

PAMELA ARENELLA

The Mind Research Network\$40,092
Effectiveness of Varenicline: Testing Individual Differences

EDWARD BEDRICK

The Mind Research Network\$28,628
STATNI-Bedrick-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

CAROLINE ALBERTA BONHAM

Albuquerque Area Indian Health Service \$356,137
IHS Tele-Behavioral Health Center of Excellence Project

Hidalgo Medical Services, Inc.\$13,634
Hidalgo Medical Services (Psychiatric Consultation)

NIH/National Institute of Mental Health\$7,500
NIMH Outreach Partnership

Sangre de Cristo Community Health Partnership\$4,000
Sangre Screening, Brief Intervention, Referral and Treatment Psychiatric Consultation

JUAN BUSTILLO

The Mind Research Network \$368,259
ACAS-Bustillo-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

NIH/National Institute of Mental Health \$304,538
Brain Glutamate and Outcome in Schizophrenia

Covance, Inc. \$178,395
ARRIVE Clinical Trial Agreement Phase III

National Institutes of Health\$20,302
Brain Glutamate and Outcome in Schizophrenia

Shire Development Inc.\$1,000
Administrative Costs for Clinical Trial

JOSE CANIVE

National Institutes of Health \$437,073
Schizophrenia Gating Deficit Mechanisms: Extending the Circuit

NIH/National Institute of Mental Health\$29,138
Schizophrenia Gating Deficit Mechanisms: Extending the Circuit

ANNETTE SUSAN CRISTANI

Patient Centered Outcomes Research Institute\$1,485,830
Patient-Centered Trauma Treatment for PTSD and Substance Abuse: Is It an Effective Treatment Option?

OptumHealth New Mexico\$91,072
Healthy Homes: The Peer Experts Supportive Housing Program Initiative

OptumHealth New Mexico\$25,000
Totah: Evaluation Deliverables for Supported Housing Program Located at Totah Behavioral Health Authority

ANILLA DEL FABBRO

New Mexico Children Youth & Families Department\$63,100
Child Rural Psychiatry (Fellows Training) Program

PAULA HENSLEY

Genentech, Inc.\$8,000
Clinical Trial Agreement - Phase II

Forest Research Institute\$5,000
Clinical Trial Agreement

DINA HILL

Yale University\$20,000
Development of a Dyslexia Screening Test

The Mind Research Network\$14,756
Neurobiological Correlates of Language Dysfunction in Autism Spectrum Disorders

BRIAN LOUIS ISAKSON

OptumHealth New Mexico\$78,639
Jail Diversion: Veteran First Jail Diversion

OptumHealth New Mexico\$50,000
Veteran First and Family Support Services

AVRON KRIECHMAN

New Mexico Department of Health / Office of School & Adolescent Health. . \$125,000
School-Based Tele-Behavioral Health Project

STEPHEN LEWIS

Feinstein Institute for Medical Research\$45,502
Clinical Trial Agreement

Feinstein Institute for Medical Research\$31,500
Clinical Trial Agreement

Feinstein Institute for Medical Research\$20,200
ARRA: Clinical Trial Agreement



Erin Watson

RODNEY MCNEASE

Albuquerque Healthcare for the Homeless Inc.\$25,000
SCI Services

STEFAN POSSE

The Mind Research Network\$68,840
IDA-Posse-COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

ALYA REEVE

Family Service Agency of San Francisco, PCORI Subaward \$720,919
New Mexico-MPOWR: Managing Patient Outcomes toward Wellness & Recovery

RASHMI SABU

Health & Human Services/Substance Abuse & Mental Health Services Administration \$399,706
Addressing Childhood Trauma through Intervention, Outreach, and Networking

JULIE GRIFFIN SALVADOR

OptumHealth New Mexico \$188,200
NIDA – Building System Capacity to Implement EBPs within a Community Based Q.I. Model

OptumHealth New Mexico \$138,763
Substance Abuse, Pregnant and Post-Partum Women

OptumHealth New Mexico\$52,000
Total Community Approach

HELENE SILVERBLATT

New Mexico Human Services Department \$225,000
BHSD: Rural Public Psychiatry Residency Training – Behavioral Systems and Implementation Consultation

LINDSAY SMART

San Felipe Pueblo \$193,932
San Felipe Katisthya Embraces Youth Wellness and Hope Project

ROBERT THOMA

The Mind Research Network \$125,778
Project 5 - Thoma - COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

The Mind Research Network\$1,350
Project 5 - Thoma - COBRE Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunction in Neural Integration

CLAIRE ELIZABETH WILCOX

NIH/National Institute on Alcohol Abuse and Alcoholism \$180,013
Neural Mechanisms of Change During Treatment of Alcohol Use Disorder with Prazosin

The Mind Research Network\$39,524
Attentional Bias Modification: Efficacy and Mechanisms of Action in Cocaine Addiction

Radiology

CHERYL AINE

NIH/National Institute on Aging \$429,994
Imaging the Development of Memory Strategies in Aging

PHILIP HEINTZ

Sandia National Laboratories\$16,800
Earth Core CT Scans

LOREN KETAI

National Institutes of Health \$196,350
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence: An RCT (MPI)



Nicholas Lam, MD

NIH/National Center for Complementary and Alternative Medicine \$191,807
Brain-Centered Therapy vs. Medication for Urgency Urinary Incontinence: An RCT

PHILIP W WIEST

New Mexico Department of Health\$78,000
Breast and Cervical Cancer Early Detection Program

U.S. Department of Veterans Affairs\$42,800
VA Radiological and Nuclear Medicine Diagnostic and Therapy Services

New Mexico Department of Health\$20,000
Breast and Cervical Cancer Early Detection Program

New Mexico Department of Health\$15,500
Breast and Cervical Cancer Early Detection Program

Surgery

ARUP DAS

NIH/National Eye Institute \$377,500
Inflammatory Chemokines: A Novel Target in Early Diabetic Retinopathy

Jaeb Center for Health Research \$356,122
A Comparative Effectiveness Study of Intravitreal Aflibercept, Bevacizumab and Ranibizumab for Diabetic Macular Edema (Protocol T)

Jaeb Center for Health Research \$215,074
Prompt Panretinal Photocoagulation vs. Intravitreal Ranibizumab with Deferred PRP for Proliferative Diabetic Retinopathy

New Mexico Commission for the Blind\$60,000
Emergency Eye Care

DUSANKA DERETIC

National Institutes of Health \$326,160
Rhodopsin Trafficking and Photoreceptor Membrane Renewal

National Institutes of Health\$84,904
Rhodopsin Trafficking and Photoreceptor Membrane Renewal - Diversity Supplement

Department of Health & Human Services/Public Health Service\$23,836
Rhodopsin Trafficking and Photoreceptor Membrane Renewal - Diversity Supplement

NIH/National Eye Institute\$22,836
Rhodopsin Trafficking and Photoreceptor Membrane Renewal

JOHN MAREK

Washington University\$41,325
Clinical Trial - ATTRACT

JOHN RUSSELL

Albuquerque-AMG Specialty Hospital.\$46,200
Administrative Services Surgery



Darryl Encino, BS

Surgery (continued)

ANIL SHETTY

New Mexico Department of Health\$6,000
Cleft Palate Clinic Services

Dental Medicine

GARY CUTTRELL

New Mexico Higher Education Department\$1,000,000
UNM Dental Residency Program

Sandoval County\$62,688
Dental Services

Albuquerque Public Schools\$25,000
Dental Hygiene

Albuquerque Public Schools\$25,000
Dental Hygiene

Albuquerque Healthcare for the Homeless Inc\$23,618
Albuquerque Healthcare for the Homeless

PETER JENSEN

El Pueblo Health Service\$280,029
Innovation in Primary Care Oral Health: Interprofessional Team Practice

CHARLES TATLOCK

New Mexico Department of Health\$268,983
Basic Oral Health Services

The Echo Institute

SANJEEV ARORA

Robert Wood Johnson Foundation\$5,000,000
Project ECHO National Expansion

Gilead Sciences\$284,670
Clinical Trial - Phase III

UNIVERSITY OF NEW MEXICO HOSPITAL

MARY BLESSING

New Mexico Department of Health\$23,210
Youth Development Pathways to Promote Health in Rural New Mexico Project

New Mexico Department of Health\$23,210
Youth Development Pathways to Promote Health in Rural New Mexico Project

New Mexico Department of Health\$23,210
Youth Development Pathways to Promote Health in Rural New Mexico Project

STEVE MCKERNAN

City of Albuquerque\$665,000
Assertive Community Treatment Program

City of Albuquerque\$665,000
Assertive Community Treatment Program

City of Albuquerque\$151,050
Primary Care Program

City of Albuquerque\$134,000
Gang Prevention Program

First Choice Community Healthcare\$35,654
Patient Services Representatives

New Mexico Department of Health\$27,500
UNMH Hospital Preparedness

First Nations Community Healthsource, Inc.\$25,000
Outpatient SCI Coverage

New Mexico Department of Health\$25,000
Carrie Tingley Hospital Preparedness

New Mexico Department of Health\$20,000
Behavioral Health Hospital Preparedness

Los Alamos Public Schools\$3,000
Neuropsychological Evaluation

RODNEY MCNEASE

Albuquerque Public Schools\$12,000
Behavioral Health Assessment and Treatment for Students

KEVIN ROGOLS

New Mexico Department of Health\$47,805
Trauma Agreement

DORIS TINAGERO

New Mexico Children Youth & Family Department\$100,000
Home Visits and Education

RESEARCH MEANS HOPE

Donate to Research

Our research programs are focused on critical health problems affecting New Mexicans and bridge the gap to more rapidly deliver discoveries to the clinical setting. Your contribution will help us meet new challenges and seek solutions to help people lead longer and healthier lives. The UNM Foundation can accommodate almost any giving interest, including health research in general, a particular disease category, or one of our signature programs.

Please contact Bill Uher for more information

bill.uher@unmfund.org or 505.277.4078

ANNUAL REPORT OF CONTRACTS AND GRANTS, 2013

Executive Editor

Luke Frank

Publication Design, Layout and Illustration

Paul Akmajian and Sara Mota

Senior Editor

Michael Haederle

Feature Writers

Kara McKinney, Heidi Rishel Brakey, Luke Frank

Photography

Sara Mota, Paul Akmajian, Rebecca Gustaf

Videography

Rebecca Gustaf

© Copyright 2013, Office of Research,
University of New Mexico Health Sciences Center

hsc.unm.edu/som/research



Office of Research
1 University of New Mexico
MSC08- 4560, BMSB B-61
Albuquerque, New Mexico 87131-0001
(505) 272-6950 • FAX (505) 272-8738
hsc.unm.edu/research



ANNUAL REPORT OF CONTRACTS AND GRANTS, 2013